
**PEACE RIVER FISH COMMUNITY INDEXING
PROGRAM - 2008 STUDIES**

Cover: Field Crew on Peace River at Section 3.

PEACE RIVER FISH COMMUNITY INDEXING PROGRAM - 2008 STUDIES

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EXECUTIVE SUMMARY

In 2001, BC Hydro initiated the Large River Fish Community Indexing Program to help define the effects of dam and reservoir operations on fish populations in flow regulated watersheds and to ensure operations are both environmentally and economically sustainable. The goal of the program was to establish cost-effective monitoring protocols to provide reliable indices of fish population characteristics. The program has occurred annually from 2001 to 2007 and the 2008 study was a continuation of that work.

The Large River Fish Community Indexing Program for the Peace River will be integrated into the Peace Water Use Plan (WUP). As such, the goal of the Large River Fish Community Indexing Program will shift from evaluation of monitoring protocols to evaluation of the effectiveness of the Peace River management plans that will be implemented under WUP.

The 2008 study area encompassed a 92 km portion of the Peace River from downstream of the Moberly River confluence to just downstream of the PCN Dam. Repeated sampling (six sessions) in three sections (1, 3, and 5) occurred from 19 August to 20 September, 2008 using a boat electrofisher in near-shore habitats.

Sampling Conditions

Sampling conditions during the 2008 field program were good and were within the range of conditions recorded during previous studies. Mean daily discharge of the Peace River was approximately 1200 m³/s at the beginning of the study and gradually declined for the duration of the program. Water temperatures remained above 10°C and water clarity was above 50 cm.

General Fish Community Characteristics

General fish community characteristics in 2008 were similar to results of previous investigations. Fourteen large-fish species were recorded and mountain whitefish was numerically dominant. The other two target species, Arctic grayling and bull trout, were not abundant. Unique findings included collection of a single pygmy whitefish, and higher than expected numbers of walleye and northern pike.

Arctic grayling

Biological characteristics were measured from 213 Arctic grayling; however, analyses were restricted to Sections 3 and 5 because few fish were recorded in Section 1. As has been recorded during previous studies, Arctic grayling sampled from Sections 3 and 5 exhibited similar biological characteristics. Samples were dominated by fish between Age 1 and Age 3, and growth rates were similar, as were annual

mortality rates. Comparisons of length-at-age suggested a general decline in the health of Arctic grayling in both sections between 2004 and 2008.

Arctic grayling catch rates were low, which is consistent with results of previous studies. Mean catch rates were higher in SFC habitat compared to SFN habitat within each section, and catch rates were higher in Section 5 compared to Section 3. The 2008 catch rates, although lower than those recorded in 2007, were comparable to historical values.

The capture of younger Arctic grayling has remained generally constant over the duration of the indexing program in Section 3. Recruitment of younger Arctic grayling in 2008 in Section 5 was similar to the value recorded in 2007 and was comparable to values recorded in Section 3.

Bull trout

Biological characteristics were measured from 170 bull trout distributed among Sections 1, 3, and 5. Length and age distributions, growth, and body condition of sampled bull trout were similar among sections. Age 0 and Age 1 fish were absent from the sample, but younger fish dominated (Ages 3 and 4 were most prominent) and fish older than Age 6 were not well represented. Annual comparisons of the combined data suggested that population health was stable.

Bull trout catch rates were very low in 2008, which was consistent with results of previous studies. There were no strong differences between sections or between years. Catch rates of younger bull trout remained very low in 2008. This was expected because young bull trout do not rear in the Peace River.

Mountain whitefish

Biological characteristics were measured from 7775 mountain whitefish distributed among Sections 1, 3, and 5. There were spatial differences in length and age distributions of mountain whitefish, which was consistent with findings during previous investigations. Fish in Section 1 exhibited a truncated age and length distribution caused by the preponderance of Age 4 to Age 6 fish. Younger fish (\leq Age 1) and older fish ($>$ Age 6) were largely absent. In contrast, mountain whitefish in Sections 3 and 5 exhibited multi-modal length distributions that represented a wide range of ages, including Age 0. Similar to findings during previous investigations there were spatial differences in growth and body condition. Older age-classes in Section 1 had lower mean lengths compared to fish in Sections 3 and 5. Body condition of younger fish also tended to be higher in Section 1 compared to Sections 3 and 5. There were annual differences in mountain whitefish growth. Mean length-at-age of mountain whitefish in all sections that had declined between 2003 and 2007, appeared to have stabilized in 2008.

In 2008, mountain whitefish catch rates tended to be highest in Section 1, intermediate in Section 3, and lowest in Section 5. Within each section catch rates were higher in SFN habitat compared to SFC habitat. The annual decline of mountain whitefish catch rates in Section 1 was reversed in 2008. Annual catch rates in Sections 3 and 5 continued to increase.

Catch rates of younger mountain whitefish remained low in Section 1 in 2008, but was higher than values recorded earlier on during the indexing program. Recruitment of younger fish in Section 3 and Section 5 remained high and generally stable.

Confounding Factors

Confounding factors included variable catch rates of Arctic grayling and the absence of spawning adult bull trout during the sampling period. Arctic grayling catch rates declined during the sampling period, which may have indicated sampling effects, altered catchability, or movement out of index sections. A large portion of the adult cohort of the bull trout population likely was absent from the index sections during most of the sampling period due to spawning in Peace River tributaries. This issue hinders accurate representation of the bull trout population structure, health, and size.

The detrimental effects of Floy tags on mountain whitefish were recorded in 2008, which was similar to results of previous studies. The detrimental effects of Floy tags on mountain whitefish health will continue until marked fish are removed from the population through attrition.

Population Estimates

Overall, the program was highly successful for mountain whitefish, but less so for Arctic grayling and bull trout. Population estimates were made using a Bayesian sequential closed population model and with an open Jolly-Seber model. Estimates for Arctic grayling and bull trout were not available in Section 1.

Population estimates for mountain whitefish were 13,884 fish in Section 1, 13,125 fish in Section 3, and 11,053 fish in Section 5. The population estimate of Arctic grayling in Section 5 was 312 fish. The minimum population size expected in Section 3 was 490 Arctic grayling. For bull trout, estimates were 386 in Section 1, 198 fish in Section 3 and 196 fish in Section 5. The estimate precision was poor for Arctic grayling and bull trout.

Catchability

The catchability estimate for mountain whitefish remained robust despite a range of conditions encountered among sample years and sections. As such, catch rate can be used as an index of absolute abundance. Sixteen data points are now available to quantify the relationship.

Age Structure Mark-Recapture Model

A conceptual Age Structure Mark-Recapture (ASMR) Model for Peace River mountain whitefish was presented and evaluated. The intent was to assess its value as an integrated tool to monitoring fish community health and to provide direction with respect to future model development. The probability is high for the successful completion of tasks for the ASMR Model. Most data are available from the existing indexing program and most analytical components are well established and understood.

Recommendations

The stated primary goal of the program is to establish fish monitoring protocols that can be used reliably to provide an index of the general status of the fish community. The findings of the 2008 Peace River Indexing Program indicated that the monitoring protocols are suitable to meet this goal, particularly for mountain whitefish. Based on these findings we recommend the following:

1. Repeat the standard program to extend the time series data. Sample Sections 1, 3, and 5 to extend the sampling history.
2. Maintain the current study design and sampling protocols.

These recommendations do not address a number of issues that may compromise the ability to interpret the data. As recommended during previous investigations, consideration should be given to expanding the scope of the Peace River Fish Community Indexing Program as follows:

1. Develop a catchability coefficient for low water clarity conditions.
2. Collect additional data in order to interpret ecological meaning of the indexing information.
3. Collect information to quantify recruitment of younger-aged fish into target populations.

Based on the evaluation of the conceptual ASMR model we have one recommendation as follows:

1. Build an ASMR model. In order to maintain this model and use it to evaluate population health there will be a need to collect long term information on population dynamics. The continued application of long-lasting marks (e.g., PIT tags) will assist in this endeavor.

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1.0 INTRODUCTION

1.1 BACKGROUND

In 2001, BC Hydro initiated the Large River Fish Community Indexing Program to help define the effects of dam and reservoir operations on fish populations in flow regulated watersheds and to ensure operations are both environmentally and economically sustainable. The program has occurred annually from 2001 to 2007. The goal of the program was to establish cost-effective monitoring protocols to provide reliable indices of fish population characteristics.

The Large River Fish Community Indexing Program for the Peace River will be integrated into the Peace Water Use Plan (WUP). The WUP Committee expressed concern about the status of fish habitat and fish productivity in the Peace River system. To address this concern management plans will be implemented that include the Peace River (PCR) Side Channel Plan and the PCR Ramping Plan, and the PCR Flood Pulse Plan. As such, the goal of the Large River Fish Indexing Program will shift from evaluation of monitoring protocols to evaluation of the effectiveness of the Peace River management plans.

Mainstream Aquatics Ltd. (Mainstream) and its study team completed programs from 2001 to 2007. In July 2008, Mainstream was contracted by B.C. Hydro to complete the 2008 program. Similar to the previous investigations the study team consisted of two primary members. Mainstream Aquatics Ltd. was the overall managing consultant and was responsible for the field program, the biological characteristics component, and relative abundance component of the study. W.J. Gazey Research was responsible for the population estimate component and related topics.

1.2 OBJECTIVES

The 2008 program objectives were as follows:

1. Sample fish in standard sections using a boat electrofisher and analyze the data in order to monitor annual changes in abundance, distribution, and biological characteristics of target species populations.
2. Sample control sites using identical methods in order to monitor potential sampling effects on target species population (these data are archived for future evaluation).
3. Populate an existing MS ACCESS® electronic database for storing, organizing, and retrieving data.
4. Prepare a concise technical report to document field-sampling protocols, the findings and recommendations of the 2008 program.

5. Participate in a Large River Fish Indexing Program workshop with other investigators, regulatory agency representatives, selected scientists, and B.C. Hydro staff to disseminate results and to discuss recommendations for further actions.

One additional objective of the 2008 program was as follows:

6. Construct a conceptual age structured mark recapture (ASMR) model such that the feasibility for an ASMR model can be assessed for Peace River target species populations.

1.3 TARGET SPECIES

Three target species were investigated in 2008:

- Mountain whitefish (*Prosopium williamsoni*)
- Arctic grayling (*Thymallus arcticus*)
- Bull trout (*Salvelinus confluentus*)

1.4 STUDY AREA

The study area was similar to previous programs (Figure 1.1). The study area included a 90 km portion of the Peace River from downstream of the Moberly River confluence (Km 53) to downstream of the PCN Dam (Km 145). Sampling occurred in three previously sampled standard sections: Section 1, Section 3, and Section 5 (Table 1.1; Appendix A). Standard sections varied in total length from 8.2 km to 11.4 km.

Table 1.1 Standard sections of the 2008 Peace River Fish Community Indexing Program.

Area	Section	Location ^a	Section Length (km)	Sampled ^b Length (m)	Percent of Section Sampled ^c
Hudson Hope	1	Km 137.0 to 145.2	8.2	12,057	54.2
Downstream of Halfway River	3	Km 89.8 to 99.2	9.4	19,467	65.5
Downstream of Moberly River	5	Km 53.4 to 64.8	11.4	14,196	51.8

^a Based on distance upstream from the British Columbia/Alberta boundary (Km 0).

^b Length of nearshore habitat sampled in each section.

^c Percent of total nearshore habitat sampled in each section.

Two control sections were located immediately adjacent to each standard section. These were designated as upper or lower controls based on location (Table 1.2; Appendix A).

Table 1.2 Control sections of the 2008 Peace River Fish Community Indexing Program.

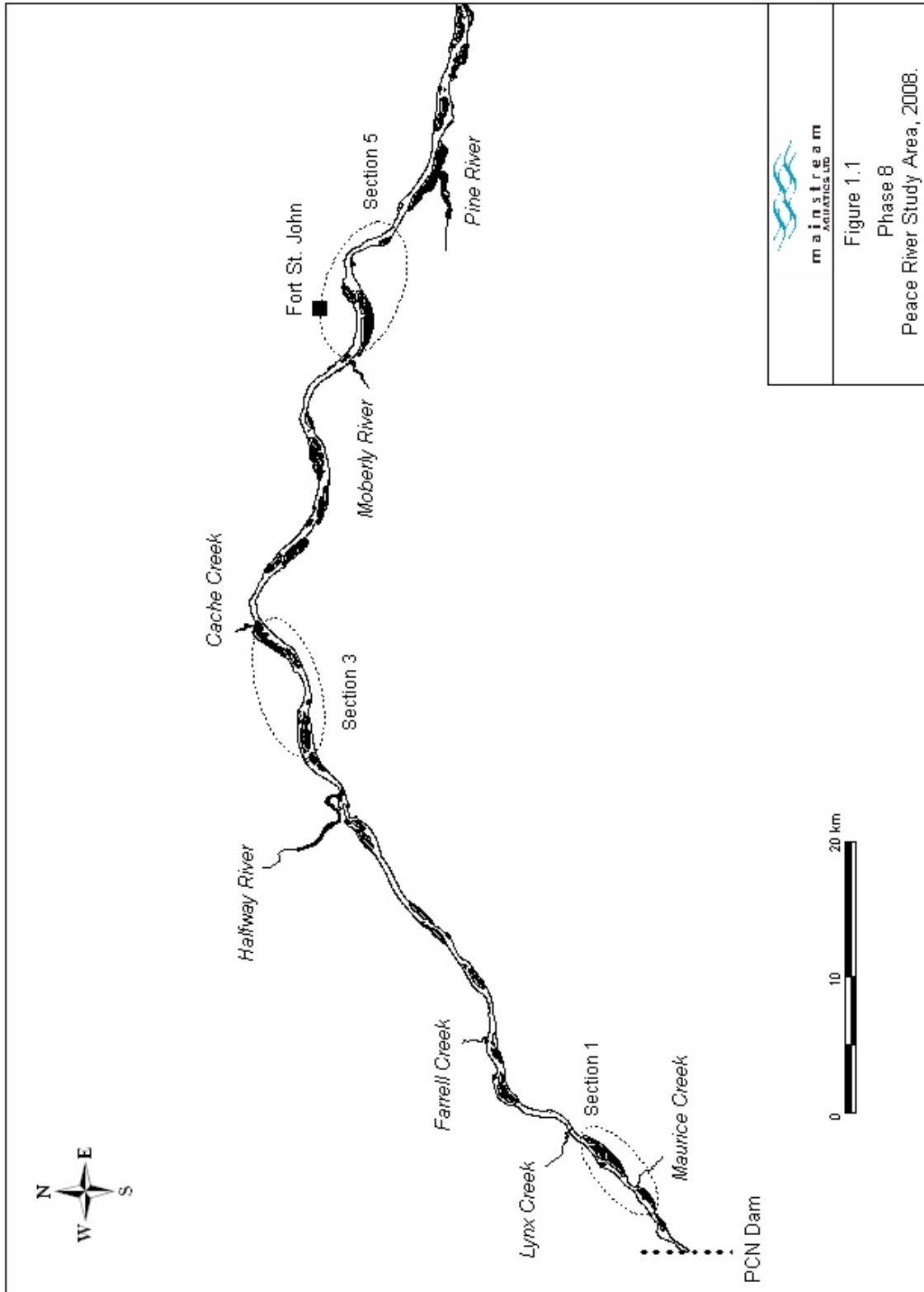
Area	Section	Location ^a	Section Length (km)	Sampled ^b Length (m)
Hudson Hope	1CL	Km 134.1 to 140.0	5.9	5108
	1CU	Km 146.5 to 147.1	0.6	1077
Downstream of Halfway River	3CL	Km 84.9 to 88.2	3.3	2892
	3CU	Km 100.5 to 108.5	7.5	6207
Downstream of Moberly River	5CL	Km 49.5 to 51.0	1.5	1755
	5CU	Km 64.9 to 68.5	3.6	1430

^a Based on distance upstream of the British Columbia/Alberta boundary (Km 0).

^b Length of nearshore habitat sampled in each section.

1.5 SAMPLE PERIOD

Sampling occurred during 36 consecutive days between 19 August and 20 September 2008.



2.0 METHODS

2.1 FIELD PROGRAM

2.1.1 Approach

The field program was designed to collect data needed to monitor fish numbers (relative abundance and population estimates) and biological characteristics of target fish populations in the Peace River. Because the primary focus was to generate reliable population estimates for target fish species, the approaches used for most study components were adjusted to accommodate this requirement.

2.1.1.1 Standard Sampling

Sites

Sites selected in 2002 based on habitat characteristics, accessibility, and presence of target fish species were resampled in 2008. The nearshore areas (i.e., river margins, generally 0.5 – 2.0 m depth) of fifteen discrete sites were sampled in each standard section using a boat electrofisher (Table 2.1; Appendix Table A2). Standard sites were distributed throughout each section and ranged in length from 445 m to 1840 m.

Each standard site represented one of two distinct habitat categories (Table 2.2): nearshore habitat with physical cover (SFC) or nearshore habitat without physical cover (SFN). These habitat categories were selected for sampling during initial studies because they represented the two dominant habitat categories in the study area and could be effectively sampled using boat electrofisher (P&E and Gazey 2003). The SFC and SFN habitat categories were defined based on three physical characteristics: bank slope/depth, water velocity, and the presence of physical instream cover. The number and type of sites in each standard section were distributed as follows: eight SFC sites and seven SFN sites.

Table 2.1 Number and length of sites sampled in standard sections, 2008 Peace River Fish Community Indexing Program.

Type	Section	Number of Sites	Length (m)		
			Average	Minimum	Maximum
Standard	1	15	827	445	1092
	3	15	1302	855	1840
	5	15	942	562	1171

Table 2.2 Site habitat categories and characteristics, 2008 Peace River Fish Community Indexing Program.

Habitat Category	Bank Habitat ^a	Instream Habitat	Water Velocity ^b	Bank Configuration ^b	Physical Cover	Dominant Substrate
SFN	A3	Run	Moderate to High	Gradual Slope/ Shallow Water	Absent	Rock
SFC	A1/A2	Run	Moderate to High	Gradual Slope/ Shallow Water	Present	Rock

^a Habitat types defined in RL&L (2001).

^b Based on subjective measure by experienced habitat biologist.

Effort

All sites in each section were sampled six times. The first four sessions were used to collect biological data from all fish species encountered and to mark and recapture target fish species. Sessions 5 and 6 focused on obtaining recapture data for the three target species, therefore, mountain whitefish were not marked or processed for biological data to maximize time spent sampling. In general, two days were required to sample each section during each of the first four sessions. During the last two sessions, each section was sampled completely in one day. In general there was a four-day rest period between sample events during Sessions 1 to 4 and a two-day rest period between Sessions 5 and 6. The distribution of sampling effort is summarized in Table 2.3. Unless otherwise indicated, ‘effort’ refers to time spent electrofishing throughout the report.

Table 2.3 Distribution of sampling effort (hours of electrofishing) in standard sections, 2008 Peace River Fish Community Indexing Program.

Section	Session and Effort (h)						Total
	1	2	3	4	5	6	
1	1.8	1.8	1.7	1.9	1.9	1.9	11.0
3	2.7	2.7	2.9	3.1	3.2	3.1	17.7
5	2.0	1.9	2.1	2.2	2.2	2.2	12.6
Total	6.6	6.5	6.8	7.2	7.2	7.2	41.4

2.1.1.2 Control Sampling

Sites

Sampling occurred in control sections located immediately upstream and downstream of each standard section (Table 2.4; Appendix Table A2). Each control section contained two sites that represented either SFC or SFN habitat categories. Attempts were made to establish one SFC and one SFN site in each control section. However, the availability of suitable sites (discrete habitat types) close to standard sections and the presence of fish dictated where control sites were placed.

Table 2.4 Number, type, and length of sites, and effort in control sections, 2008 Peace River Fish Community Indexing Program.

Type	Section	Number of Sites	Length (m)		Effort (h)
			Minimum	Maximum	
Control	1CL	2	668	734	0.2
	1CU	2	483	594	0.1
	3CL	2	723	1180	0.3
	3CU	2	682	1684	0.3
	5CL	2	510	920	0.3
	5CU	2	875	880	0.2

Effort

Each permanent control site was sampled once at the beginning of the field program (Session 1). Total effort was 1.4 h

2.1.2 Fish Capture Methods

A boat electrofisher was used to capture fish in nearshore habitats along the channel margin. Larger-sized fish were targeted (> 150 mm fork length) in water depths ranging from 0.5 to 2.0 m. Sampling was restricted to areas \leq 2.0 m deep because boat electrofishing effectiveness on the Peace River is severely reduced beyond this depth.

A 5 m boat electrofisher propelled by a 175 Hp sport-jet inboard motor was used to sample fish. The craft was equipped with a fixed-boom anode system and Smith-Root Type VIA electrofisher system. Electrofisher settings were generally maintained at an amperage output of 3.0 to 4.5 A, pulsed DC current, and a frequency of 60 Hz. These settings were sufficient to immobilize all three target species and minimize injury rates of susceptible species such as mountain whitefish. The electrofisher settings used during Phase 8 were similar to those employed during previous studies.

The sampling procedure involved drifting downstream at motor idle along the channel margin, while outputting a continuous current of electricity. In general, boat position was maintained at a water depth of 1.25 m to 1.50 m by monitoring the depth with a sounder. The only instance when this sampling protocol changed occurred when backwater areas greater than two boat lengths were encountered. In these situations, the boat was turned into the backwater at its downstream end and the channel margin in the backwater area was sampled in an upstream direction.

Two netters positioned on a platform at the bow of the boat captured immobilized fish while the boat operator maintained the position of the craft along the channel margin. To provide a representative sample of the fish community netters were instructed not to bias their catch towards a particular species or fish size. Netters were equipped with nets having a diameter of 45 cm, a depth of 40 cm, and a mesh size of 5 cm. To facilitate capture of smaller fish, the bottom surface (40 cm²) of each net had a mesh size of 1.5 cm. This mesh size allowed capture of fish to a minimum size of approximately 150 mm.

Netters were instructed to retrieve a random sample of immobilized fish of any species and size (> 150 mm) that were accessible from their netting position on the platform. To minimize the potential for electrofisher induced injury, no more than one fish was netted at a time and immobilized fish were removed from the water as quickly as possible and immediately placed into a holding container.

The only exception to the above sampling protocol occurred when a rare species or life stage was encountered. In this situation, the boat was turned towards the fish and netters made every effort to capture the individual.

Upon completion of an electrofishing section, captured fish were enumerated, processed, and released. To avoid recapture of previously collected fish, processed fish were released near the middle of the sample site.

2.1.3 Observed Fish

A standardized approach to enumerate observed fish was used during the standard sampling program. Each netter was instructed to count un-netted fish \geq 250 mm total length that were present in a defined observation zone at the bow of the boat electrofisher. Observations were restricted to four species: Arctic grayling, bull trout, mountain whitefish, and rainbow trout. At the end of a sample site, each netter recorded the number of observed fish on a data record sheet. To minimize observer bias, netters were not coached and they were instructed not to compare results.

2.1.4 Processing Fish

All captured fish were held in a 230 L holding tank equipped with a water circulating system, which provided a water exchange rate of 19 L/min. During Sessions 1 through 4 data recorded for each fish included species, fork length (to the nearest 1 mm), weight (to the nearest 2 g), and presence of a tag, tag scar, or fin clip. An appropriate nonlethal ageing structure (Mackay *et al.* 1990) was collected from all individuals of the three target species. The first two rays of the right pectoral fin were collected from

bull trout, while several scales situated immediately below the back third of the dorsal fin and above the lateral line were collected from Arctic grayling and mountain whitefish. Structures were placed in labeled envelopes and air-dried before storage. All field data were entered electronically using a TDS Ranger handheld computer into an Microsoft® Excel spreadsheet.

As part of the population estimate component of the study in the standard sections, individuals of target fish species ≥ 250 mm fork length in good condition were marked using Passive Integrated Transponder tags, or “PIT tags”. Tags were of the ISO type (134.2 kHz), which have a 15 digit numeric code. Tags, tag applicators, and tag readers were supplied by AVID Canada. After tag insertion, a Power Tracker VIII tag reader was used to record the numeric code. It should be noted that PIT tags used prior to 2006 were of the FECAVA type (125 kHz), which have a 10 digit alpha-numeric code. The Power Tracker VIII could read both tag types. Fish collected from control sections were not marked with PIT tags.

This fish processing procedure was modified during recapture Sessions 5 and 6 to shorten processing time. All captured fish were examined for the presence of a tag. For all marked mountain whitefish, tag numbers were recorded and fish were measured for fork length prior to release. Mountain whitefish without tags were assigned a length category, enumerated, and released. Size categories were ≥ 250 mm fork length (taggable) and < 250 mm fork length (not taggable). All Arctic grayling and bull trout were processed, tagged, and released. All nontarget species were counted and released.

2.1.5 Measured Parameters

In addition to fish capture and biological characteristics, other parameters measured during the standard program included the following:

- Date and time
- Effort (seconds/meters)
- Sample method settings
- Water conductivity (microseimens)
- Water temperature (°C)
- Water clarity (cm); using a secchi plate mounted on a pole (plate was 2.5 cm wide x 21 cm long partitioned into three equal sections of black, white, and black)
- Relative observer skill (high [1]; moderate [2]; low [3]; nil [4]).

The information was either processed and analyzed, or stored for future reference (Appendix B).

2.1.6 Measurement of Water Levels

The 8007WDP water depth logger manufactured by Unidata, was used to monitor water levels (and temperature) in Section 1 and Section 5. The instrument consists of a 4 cm diameter, 60 cm long

submersible stainless steel tube containing a pressure sensitive transducer, thermistor, power supply, and data logger. The instrument cable contains a hollow polyethylene tube to provide an atmospheric pressure reference for the transducer and a communication line mounted within a urethane jacket protected with stainless wire mesh. The polyethylene tube is vented through a silica gel desiccant to minimize the potential for condensation. The data logger can store 52,000 entries. Each instrument was pre-programmed to measure water depths and water temperature every minute and record the average value every fifteen minutes. This sampling procedure increases the signal to noise ratio and the accuracy of the recorded data.

Both instruments were tested prior to being shipped to the field. The lower 50 m of polyethylene tube on each unit was protected using a metal flex conduit tube.

2.2 OFFICE PROGRAM

2.2.1 Age Data

Ages were obtained from all Arctic grayling and bull trout collected during the program (unmarked and previously marked fish). For previously marked bull trout the absence of an ageing structure (pectoral fin ray) required use of age data obtained during previous studies.

The large number of processed mountain whitefish required use of a random subsample of ageing structures. A random number generator was used to select ageing structures from approximately 10% of nonfloy-tagged mountain whitefish captured for the first time in 2008 (previously PIT-tagged and unmarked fish) in each section using SPSS© software. Floy-tagged fish were not included due to strong, negative tag effects on growth (Mainstream and Gazey 2007). PIT-tagged fish were included due to the high percentage of marked fish present in the sample and the absence of a measurable tag effect (Mainstream and Gazey 2007).

Ageing procedures followed those described in Mackay *et al.* (1990). Scales were immersed in water and cleaned if dirty, and then placed on a microscope slide for viewing using a dissecting microscope. Mounting procedures for bull trout fin rays followed Koch and Quist (2007). Fin rays were fixed in epoxy, sectioned with a jeweler's saw, and mounted on a slide for viewing under a dissecting microscope. Two experienced individuals independently aged each structure for mountain whitefish and Arctic grayling. One experienced individual aged each bull trout structure. A second reader completed random checks on bull trout ages.

2.2.2 Analytical Approach

Parameters used as monitoring tools included biological characteristics, catch rate (relative abundance), and population estimates. Methods are described below. Unless otherwise stated, statistical analyses followed procedures described in Sokal and Rohlf (1981).

General statistical protocols were as follows:

1. Statistical significance was accepted at $P \leq 0.05$.
2. Univariate statistical analyses were restricted to samples $n \geq 5$.
3. Data were transformed where appropriate to meet assumptions required for parametric statistical analyses.
4. Nonparametric tests were used where assumptions for parametric statistical analyses could not be resolved.

2.2.3 Biological Characteristics

Biological characteristics examined included length and age distribution, body condition-at-age, length-at-age, growth rate, and mortality. When possible, data from individual sections were analyzed and presented separately due to spatial differences in biological characteristics (P&E and Gazey 2003; Mainstream and Gazey 2004, 2005, 2006, 2007, 2008). The only exception was analyses of bull trout data. For this species all sections were combined for annual comparisons. This approach was used because fish of this target species population are mobile and use the entire study area (Burrows *et al.* 2000) and combined data reduced the issue of small sample size.

All age-related analyses were restricted to data of fish captured for the first time in 2008. Age data from Floy-tagged mountain whitefish and Arctic grayling were excluded from all analyses due to the potential for negative tag effects (Mainstream and Gazey 2008, see Section 3.6.3).

Body Condition

Fulton's Condition Index (K), which is an index of the relationship between weight and length of fish was used as a measure of fish health. To minimize potential problems associated with correlations between fish length and body condition (Cone 1989), samples were stratified by age for comparisons.

Fulton's Condition Index formula was as follows:

$$\text{Condition } (K) = (Wt/L^3) \times 100,000$$

Where Wt represents weight (g) and L represents fork length (mm).

Length-at-Age and Growth Rate

Length-at-age relationships were described using the average length of each age-class with the von Bertalanffy growth equation (Busacker *et al.* 1990) as follows:

$$L_t = L_\infty \left[1 - e^{-K(t-t_0)} \right]$$

Where t represents the age of the fish in years from the starting time t_0 , maximum length equals L_∞ , K represents the growth coefficient, and e is the base of the natural logarithm. Growth curves were generated using Sigmaplot® 8.0.

Convergence was not possible using the von Bertalanffy growth equation for bull trout in some sections due to the absence of smaller and larger fish. For these cases, a best-fit regression model was applied. A linear regression best described the age-length relationship as follows:

$$Y = a + bX$$

Where Y = fork length (mm), a = fork length intercept, b = slope, and X = age (years).

Mean length-at-age, growth rate, and the anabolic constant estimate were test variables used for comparisons of growth. The anabolic constant estimate is the product of the von Bertalanffy growth parameter (K) and the asymptotic length parameter L_∞ (Gallucci and Quinn 1979). Standard error of the anabolic constant estimate (ω) was calculated as follows.

$$SE\omega = \sqrt{(a^2 + c^2) \times (b^2 + d^2) + (2 \times e \times a \times b \times c \times d)}$$

Where $SE\omega$ is the standard error of the anabolic constant, a is K , b is the standard error of K , c is L_∞ , d is the standard error of L_∞ , and e is the correlation coefficient between K and L_∞ .

Mortality

A “catch curve” of annual mortality of sample populations was developed following Ricker (1975). To reduce the effects of random variations in recruitment data for individual sections and years, data were combined for catch curve analyses of Arctic grayling and bull trout. This approach requires the assumption that the population is in a state of equilibrium (Ricker 1975). This assumption was not tested; therefore, the catch curve results represent “crude” estimates of mortality.

An estimate of instantaneous total mortality (Z) was first calculated using least squares regression (age versus natural log number) based on the number of fish in fully vulnerable age classes (descending portion of the age distribution) and converted to survival ($S = e^{-Z}$). Annual mortality was presented based on $1-S$. Confidence intervals (95%) around the annual mortality estimate were calculated using the standard error of $Z * (t_{0.05, n-2})$, where n equaled the number of age classes used to generate Z , and then converting the interval value using the same procedure as for Z .

2.2.4 Catch Rate

Catch rate was used to provide an index of fish abundance. Catch rate was calculated by dividing the number of fish enumerated by the distance sampled and represented as number of fish per kilometre. For mountain whitefish, the number of fish enumerated equaled the number of fish captured. For Arctic grayling and bull trout, the number of fish enumerated equaled the number of fish captured plus the number of fish observed. The rationale for use of this approach is presented in Mainstream and Gazey (2004). For abundant species such as mountain whitefish, large observer bias and sampling error negates the benefit of including observed fish in the catch. For less abundant species, such as Arctic grayling and bull trout, observer bias and sampling error is reduced allowing use of the observed data without compromising sampling accuracy or precision.

The approach used for statistical analyses of catch rate data was dependent on the questions asked and the characteristics of the data. Based on findings by P&E (2002), P&E and Gazey (2003) catch rates were stratified by habitat type and section to reduce sample variation, and to address spatial differences in fish abundance. Catch rates for each habitat type were combined for annual comparisons. Section catch rates were calculated by adding individual habitat type estimates.

The standard deviation of the combined estimate was calculated as follows:

$$SD_{cp} = \sqrt{\left((a^2) - \left(\left(\left((b^2 + c^2) * d \right) + \left((e^2 + f^2) * g \right) \right) / (d + g) \right) \right)}$$

Where SD_{cp} is the standard error of the combined estimate, a is absolute value of the combined estimate, b is the estimate of CPUE A, c is the standard error of CPUE A, d is the sample size of CPUE A, e is the estimate of CPUE B, f is the standard error of CPUE B, g is the sample size of CPUE B.

The standard error was calculated as the standard deviation of the combined estimate divided by the square root of the combined sample size.

2.2.5 Index of Recruitment

An index of recruitment was calculated by dividing the number of younger fish (defined as < 250 mm fork length) and the number of older fish (≥ 250 mm) by the total number of fish recorded in a section. A fork length of 250 mm was used as the threshold between small and large fish because it corresponded to the predicted length of sexual maturity for Arctic grayling (Age 2) and mountain whitefish (Age 3). For bull trout 250 mm fork length corresponded to length at Age 2 or Age 3. Use of 250 mm also allowed inclusion of observed Arctic grayling and bull trout in the analyses.

To facilitate comparisons between sections and years the index was weighted. The weighting factor was the section sampled length in a specific year divided by the combined sampled length of all sections within a specific year.

2.2.6 Tag Effects

The growth rate of Floy and PIT tagged mountain whitefish was examined through the parameterization of von Bertalanffy growth models based on the growth increment exhibited by marked and recaptured fish during the associated time-at-large. The model can be derived from the differential form of the von Bertalanffy model described by Taylor (1963),

$$(1) \quad \frac{dL}{dt} = K(L_{\infty} - L) \cdot t$$

where K is the growth coefficient, L_{∞} is the asymptotic length coefficient and t is time. The integration of Equation (1) with initial conditions that length (L) equals 0 when age $t = t_0$ yields the usual formulation of the model suitable for length-at-age data:

$$(2) \quad L = L_{\infty} [1 - \exp\{-K(t - t_0)\}]$$

Similarly, the integration of Equation (1) with initial conditions that length at release (L_0) equals length at recapture (L_r) when time-at-large is zero ($\Delta t = 0$) yields a formulation suitable to mark and recapture data:

$$(3) \quad L_r = L_{\infty} - (L_{\infty} - L_0) \cdot \exp\{-K \cdot \Delta t\}$$

Estimates of the parameters of K and L_{∞} were made through nonlinear least squares regression of Equation (3). Statistical comparisons of the Floy and PIT mark-recapture sets were then made using the anabolic constant (Product (K, L_{∞}) following Gallucci and Quinn (1979).

2.2.7 Population Estimates

A mark-recapture program was conducted on mountain whitefish, Arctic grayling, and bull trout over the period August 20 to September 20, 2008 (duration of 31 days). Three sections were sampled (Figure 1.1) by six sequential sessions (Table 2.5).

Table 2.5 Sampling dates by section and session and the study days used for the Jolly Seber model, 2008 Peace River Fish Community Indexing Program.

Session	Section		
	One	Three	Five
Actual Sampling Dates			
1	20, 21 Aug	22, 23, 24 Aug	25, 26, 27 Aug
2	28, 29 Aug	30, 31 Aug	1, 2 Sep
3	3, 4 Sep	5, 6 Sep	7, 8 Sep
4	9, 10 Sep	11, 12 Sep	13, 14 Sep
5	15 Sep	16 Sep	17 Sep
6	18 Sep	19 Sep	20 Sep
Mid or Study Day			
1	1.0	2.5	5.5
2	8.0	10.0	12.0
3	14.0	16.0	18.0
4	20.0	22.0	24.0
5	25.5	26.5	27.5
6	28.5	29.5	30.5

During the first four sessions marks were applied, but during the final two sessions emphasis was placed on searching for the presence of a mark on fish encountered. Overall, the program was highly successful (in terms of the number of marks applied and recaptured) for mountain whitefish but much less so for Arctic grayling and bull trout. Therefore, the methodologies described (diagnostics, population estimation, catchability and sampling power analyses) were comprehensively applied to mountain whitefish. For Arctic grayling and bull trout, only the closed population estimation methodology could be applied because of sparse data.

2.2.7.1 Factors that Impact Population Estimates

The tagging program has some characteristics that must be considered with reference to the population estimation methodology and limitations of the subsequent estimates. First, the capture of fish may be heterogeneous (i.e., some fish are more likely to be caught than others) because of spatial distribution or the reaction of the fish to electrofishing. Second, marks were applied only to fish greater than 250 mm; thus, any estimates are only applicable to that portion of the population. Third, fish can grow over the life of the study such that fish recruit into the portion of the population greater than 250 mm when the study commenced. However, given the short duration of the study, appreciable growth was not expected.

Fourth, marked fish can move to sections where capture vulnerability may be different because of possible differences in catchability, number of available marks for recapture or the population size.

In order to investigate these characteristics, we first examined the capture behavior of the marked fish. Floy tags have been applied from 2002 to 2004 and PIT tags have been applied over the 2004 to 2008 period. For marks applied prior to 2008, the fish had to be caught again in 2008 and the tag recorded to qualify as a mark release. The recapture rate in 2008 by tag type (Floy and PIT) and initial year of release were compared (G-test, Sokal and Rohlf, 1969), as well as the time-at-large for the release types. We also compared the frequency of multiple recaptures following Seber (1982). Length histograms of the fish marked and recaptured were examined to reveal selectivity patterns generated by the presence of a mark. These patterns were further evaluated by combining the measured fish into 25 mm length intervals and conducting tests of independence (G-test) for each section. Growth over the period of the Phase 8 study was examined by regressing the time at large (days) of a recaptured fish on the increment in growth (difference in length measured at release and recapture).

The movement of fish between sections in 2008 and at-large for over a year (marked in 2002 to 2007 and recaptured in 2008) was assessed through weighting the recaptures by sampling intensity. Within each section are 15 sampling sites, each with a unique river kilometer (kilometers from the mouth) which allowed for the distance traveled up or downstream to be calculated for recaptured fish. In order to further examine fish movement, two control sections were added to each standard section (one upstream and the other downstream).

2.2.7.2 Empirical Model Selection

The large number of mountain whitefish recaptures allowed for quantitative model selection using POPAN-5 (UFIT module) software for mark-recapture data (Arnason *et al.* 1998). For the purpose of total survival estimates, the time of sampling was assumed to be the mid-point of the actual sampling dates (Table 2.5). Each section was modeled independently with recaptured fish in other sections treated as removals. For all sections (1, 3 and 5), the model selection was for a closed population (no change in population size over the period of the study). Similarly, the large number of recaptures also allowed an empirical evaluation of homogeneous and heterogeneous capture probabilities by employing MARK (closed population capture-recapture models) software (White 2006) to calculate delta Akaike's information criteria, adjusted to account for the number of parameters, and the associated model likelihood for each of the sections.

A Jolly-Seber open population model (allows for recruitment into the population and survival other than 1.0) using the POPAN-5 software was applied to each section as well to provide more diagnostics for model selection. As recommended by Seber (1982), survival estimates were unconstrained (i.e., can exceed 1.0) such that changes in capture probability (catchability) over the study period are not obscured by constraining survival.

2.2.7.3 Bayes Sequential Model for a Closed Population

A Bayesian mark-recapture model for closed populations (Gazey and Staley 1986, and Gazey 1994) was applied to the mark-recapture data. The Bayesian model was adapted to accommodate adjustments for movement between river sections, allow for stratified capture probabilities and cope with sparse recaptures characteristic of Arctic grayling and bull trout. The major assumptions required for the Bayesian model are as follows:

1. The population size in the study area does not change over the period of the experiment. If mortality occurs then it can be specified independent of the mark-recapture information. Fish can move within the study area (to different sections); however, the movement is fully determined by the history of recaptured marks.
2. All fish in a stratum (day and section), whether marked or unmarked, have the same probability of being caught.
3. Fish do not lose their marks over the period of the study.
4. All marks are reported when the fish are recaptured. If marks are not detected then the rate can be specified independent of mark-recapture information.

The following data needs to be extracted from the mark-recapture database in order to generate population estimates for the Bayes model:

- m_{ti} – the number of marks applied or first observed in 2008 from a previous study during day t in section i ,
- c_{ti} – the number of fish examined for marks during day t in section i ,
- r_{ti} – the number of recaptures in the sample c_{ti} , and
- d_{ti} – the number of fish removed or killed in the recaptures r_{ti} .

A fish had to be greater than or equal to 250 mm to be a member of m_{ti} . A fish was counted as examined (a member of c_{ti}) only if the fish was landed and examined for the presence of a mark and was greater than or equal to 250 mm in length. A fish was counted as a recapture (r_{ti}) only if it was a member of the sample (c_{ti}), was a member of marks applied (m_{ti}) and was recaptured in a session later than the release session. A fish was counted as removed (d_{ti}) if it was not returned to the river or the fish was deemed to be unlikely to survive.

The number of marks available for recapture, adjusted for movement, was determined by first estimating the proportion of marks released in section i moving to section j (p_{ij}). Note by definition:

$$\sum_j p_{ij} = 1.$$

Assuming that the movement of marked fish is determined by the recapture history corrected for the sampling intensity then:

$$(1) \quad \hat{p}_{ij} = \frac{\sum_t \frac{w_{ij}}{c_{ij}}}{\sum_j \sum_t \frac{w_{ij}}{c_{ij}}}$$

where w_{ij} is the total number of recaptures that were released in section i and captured in section j over the entire study. The maximum number of releases available for recapture during day t in section j (m_{ij}^*) is then:

$$(2) \quad m_{ij}^* = \sum_i \hat{p}_{ij} m_{ti}.$$

The usual closed population model assumptions (e.g., Gazey and Staley 1986) may be invalidated by natural mortality, unaccounted fishing mortality, the emigration of fish from the study area and non-detection of a mark when the fish was sampled. Thus, the number of marks available for recapture at the start of day t in section i (M_{ti}) consists of the releases in each of the sections corrected for removals (mortality and emigration) summed over time, i.e.,

$$(3) \quad M_{ti} = \sum_{v=1}^{t-h} \exp\left\{\frac{v+h-t}{365} Q\right\} (m_{vi}^* - d_{vi})$$

where Q is the instantaneous annual rate of removal and h is the number of lags or mixing days (nominally set to three days). The number of fish examined during day t in the i 'th region (C_{ti}) does not require correction, i.e.,

$$(4) \quad C_{ti} = c_{ti}$$

The recaptures in the sample, C_{ti} , however, need to be corrected for the proportion of undetected marks (u), i.e.,

$$(5) \quad R_{ti} = (1 + u)r_{ti}$$

The corrected marks available, sample and recaptures (Equations 3, 4, and 5) are the input information required by the Gazey and Staley (1986) to form the population estimates.

The estimation of population size was accomplished with a Microsoft Excel[®] spreadsheet model that consists of macros coded in Visual Basic. The procedure requires the execution of two passes (macros update and estimate). First (execute macro update), the mark-recapture data are assembled by sections under the selection criteria of minimum time-at-large (days) and minimum length (mm) specified by the user. For the second pass (execute macro estimate), the user must specify the sections to be included in the estimate, annual instantaneous removal rate, the proportion of undetected marks and the confidence interval percentage desired for the output. The model then assembles the adjusted mark-recapture data (Equations 3, 4, and 5) and follows Gazey and Staley (1986) using the replacement model to compute the population estimates. Output includes the posterior distributions, the Bayesian mean, standard deviation, median, mode, symmetric confidence interval and the highest probability density (HPD) interval.

Population estimates were generated for the three sections using marks applied at a start-date of 20 August 2008, a minimum length of 250 mm, an annual instantaneous removal rate (represents natural mortality, unobserved removals and emigration) of 0.0, and an undetected mark rate of 0%. Other parameter values were tried in order to reveal the sensitivity of the population estimates to failures in the closed model assumptions. The total population estimate for the study area was obtained by summing the section estimates. For mountain whitefish, the confidence interval for the total study area estimate was calculated invoking a normal distribution under the central limit theorem with a variance equal to the sum of the variances for the sections. For Arctic grayling and bull trout, posterior distributions for the population estimates were very skewed which precluded the application of the central limit theorem. Instead, the compound posterior distribution for the sum of the respective sections (sections 3 and 5 for Arctic grayling and all sections for bull trout) were calculated following Gazey and Staley (1986).

2.2.8 Catchability

One of the key quantities of interest is the catchability coefficient, or catchability. If catchability is constant across years and river sections then indices of abundance such as catch rate (No. fish per unit effort, CPUE) are comparable. Handling time to process a fish (e.g., netter dipping, dumping the fish in

the hold) can cause systematic bias in the relationship between CPUE and abundance (Hilborn and Walters 1992). Catchability coefficients were calculated under the assumptions of a closed population and that abundance indices are proportional to the population size. If these assumptions are true then the coefficients should remain constant over study-years and river sections; which is a test of this potential systematic bias.

An estimate for catchability for the i 'th section was calculated as:

$$(6) \quad \hat{q}_i = \frac{\sum_t C_{ti}}{E_i \cdot N_i}$$

where C_{ti} is from equation (4), E_i is electrofishing effort (measured as hours of electro-shocking or distance traveled) and N_i is the Bayes closed population estimate (i.e., no change over the study period) for section i , calculated following section 2.2.7.3 above. Given the mark recapture and effort data, the variance of catchability is:

$$(7) \quad \text{Var}(\hat{q}_i) = \left(\frac{\sum_t C_{ti}}{E_i} \right)^2 \text{Var}\left(\frac{1}{N_i} \right)$$

where the reciprocal of estimated abundance is distributed normally and can be estimated using the following expression (Ricker 1975, p 97):

$$(8) \quad \text{Var}\left(\frac{1}{N_i} \right) = \frac{\sum_t R_{ti}}{\left(\sum_t M_{ti} C_{ti} \right)^2}$$

The catchability coefficient was examined using the catch rate weighted for habitat as described in Section 2.2.4 above. This was undertaken to illustrate the application of catch rate as a monitoring tool. The weighted estimate of catch rate was plotted against the population estimate for that section and the relationship quantified using simple linear regression. The slope of the relationship, which represented the catchability coefficient, was then compared to the catchability coefficient estimate generated using the recapture and effort data (see Equation 6).

2.2.9 Effort Needed to Detect Change

In order to explore the precision that may be obtained under alternative sampling intensities, a simple power analysis was conducted on mountain whitefish sampled from Section 1 where a consistent program has been performed each year over the 2002 to 2008 period. We assumed that the estimate of the Bayesian mean (\bar{N}) was the actual population size and adjusted the data for an altered sampling factor for any sequence as follows:

$$(9) \quad M'_t = \left[1 - \left(1 - \frac{M_t}{\bar{N}} \right)^f \right] \cdot \bar{N}$$

$$(10) \quad C'_t = \left[1 - \left(1 - \frac{C_t}{\bar{N}} \right)^f \right] \cdot \bar{N}$$

$$(11) \quad R'_t = R_t \cdot \frac{M'_t}{M_t} \cdot \frac{C'_t}{C_t}$$

where f is the sampling factor (e.g., $f = 2$ represents a doubling of the sampling effort), M_t is the number of marks applied at the start of the t^{th} sampling sequence, C_t is the total number of fish examined for marks and R_t is the number of recaptured marks. The prime notation represents the data generated for a specified sampling factor. Since the number of marks applied or fish examined is small in relation to the population size, a sampling factor of 2 nearly doubles the marks applied and examined and quadruples the recoveries.

For the purposes of this analysis we defined precision to be half of the 80% highest probability density (HPD) expressed as a percentage of the mean. If the posterior distribution was perfectly symmetrical, then our precision definition would equate to the plus/minus 80% confidence interval.

2.2.10 Data Management System and Update Database

Microsoft® Access 2000 was used to enter, check, and store the raw fish and habitat data collected during 2008. This information was used to update the Peace River Fish Community Indexing Program database.

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3.0 RESULTS

This section provides a summary of the general characteristics of the fish community and a comparison to previous results, where appropriate. For simplicity the information has been grouped into seven component sections: sampling conditions, fish community characteristics, biological characteristics, catch rate, confounding factors, population estimates, and catchability. Appendices B to E present all raw data.

3.1 SAMPLING CONDITIONS

3.1.1 Discharge

There was a gradual decline in mean daily discharge of the Peace River during the 2008 field program (Figure 3.1). At the start of the field program (19 August) mean daily discharge from the PCN Dam was approximately 1200 m³/s. Mean daily discharge had declined to approximately 900 m³/s by the end of the program. Within this general trend, hourly discharge fluctuated widely during each 24 h period on most sampled days. The daily discharge in 2008 was generally higher than the historical average daily discharge recorded since the beginning of the indexing program.

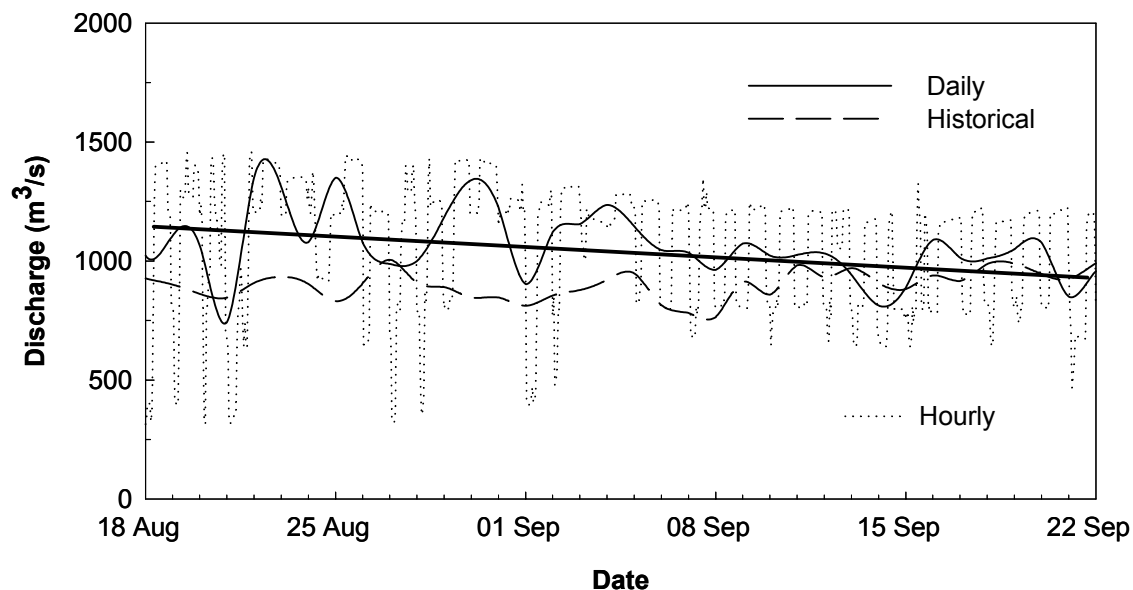


Figure 3.1 Peace River daily and hourly discharge at PCN Dam with comparison to the historical average daily discharge recorded from 2001 to 2007, 2008 Peace River Fish Community Indexing Program.

Field observations indicated that there were no large changes in Peace River discharge caused by inputs from the Halfway River and other tributaries. Discharge of the Halfway River at the beginning of the program was 101 m³/s or 8% of the Peace River flow and slowly decreased over time (Water Survey of Canada Station 07FA006). Moberly River discharge was 3.5 m³/s at the beginning of the program and also decreased over time (Water Survey of Canada Station 07FB008).

3.1.2 Water Clarity

Water clarity in the Peace River varied during the field program depending on section and date (Table 3.1, Figure 3.2). Water clarity values were generally close to or above 200 cm in Section 1 during the entire program. Average water clarity was slightly lower in Sections 3 and 5 (< 100 cm) at the start of the program, but increased during the remainder of the program until values exceeded 150 cm. Work by P&E (2002) indicated that water clarity of 50 cm was the threshold at which there was a negative effect on capture efficiency. As such, capture efficiency during the 2008 field program likely was not impacted by low water clarity.

Table 3.1 Water clarity (cm) during the 2008 Peace River Fish Community Indexing Program.

Section	Mean (\pm SE)	Range
1	> 220	-
3	161.3 \pm 9.7	15 – 220
5	178.4 \pm 7.6	80 – 220

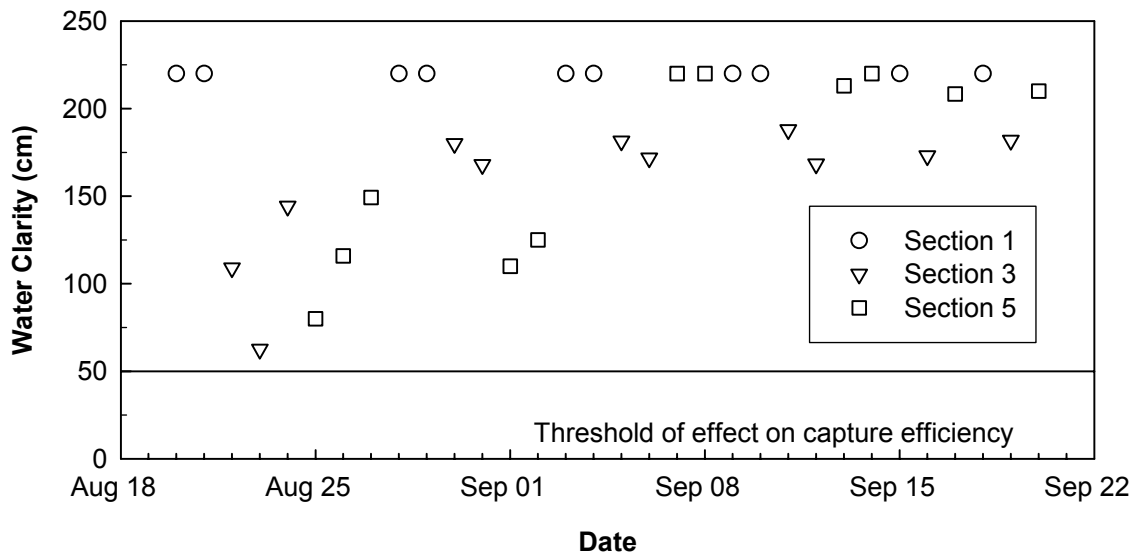


Figure 3.2 Mean daily water clarity in Sections 1, 3, and 5, 2008 Peace River Fish Community Indexing Program.

3.1.3 Water Temperature

Mean daily water temperatures ranged from 10.1°C to 13.6°C in Section 1 and 11.5°C to 13.4°C in Section 5 during the field program (Figure 3.3). Temperatures were well above the threshold for initiation of mountain whitefish spawning and they were generally one to two degrees higher than historical average daily water temperatures recorded from 2001 to 2007.

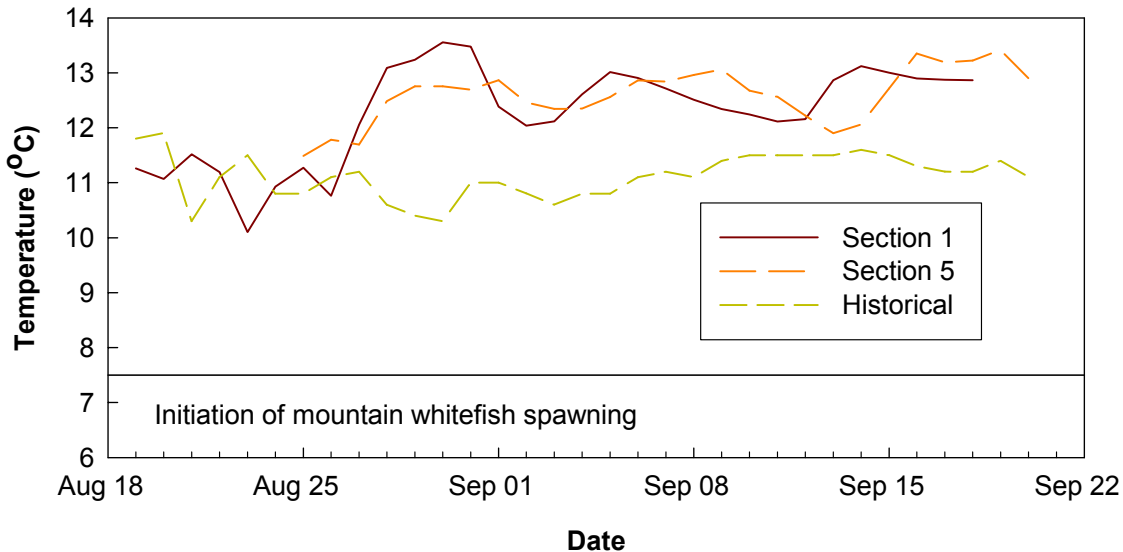


Figure 3.3 Mean daily water temperatures in Sections 1 and 5 with comparison to the historical average daily temperatures recorded from 2001 to 2007, 2008 Peace River Fish Community Indexing Program.

3.2 GENERAL CHARACTERISTICS OF THE FISH COMMUNITY

In total, 14,257 fish representing 14 species were recorded in 2008 (Table 3.2). The species included 10 sportfish, 3 suckers, and 1 cyprinid. Mountain whitefish were very numerous and dominated the sample (12,346 fish; 86.6%). The two other target species were not abundant. In total, 214 Arctic grayling (1.5%) and 198 bull trout (1.4%) were recorded. After mountain whitefish, longnose sucker was the most prominent species (974 fish; 6.8%). The results for the three target species were similar to findings of previous studies.

Differences between the present study and others included higher numbers of walleye (78 fish) and northern pike (15) in the catch. In general, both species were scarce (<5 fish) during previous studies. Also of note was a record of a single pygmy whitefish in the catch, a species that has been recorded only once before during the Peace River Fish Community Indexing Program.

Table 3.2 Number and percent composition of fish species, 2008 Peace River Fish Community Indexing Program.

Family	Common Name	Scientific Name	Number	Percent
Salmonidae	Arctic grayling	<i>Thymallus arcticus</i>	214	1.5
	Bull trout	<i>Salvelinus confluentus</i>	198	1.4
	Kokanee	<i>Oncorhynchus nerka</i>	49	0.3
	Lake whitefish	<i>Coregonus clupeaformis</i>	1	< 0.1
	Mountain whitefish	<i>Prosopium williamsoni</i>	12,346	86.6
	Pygmy whitefish	<i>Prosopium coulteri</i>	1	< 0.1
	Rainbow trout	<i>Oncorhynchus mykiss</i>	169	1.2
Gadidae	Burbot	<i>Lota lota</i>	2	< 0.1
Esocidae	Northern pike	<i>Esox lucius</i>	15	0.1
Percidae	Walleye	<i>Sander vitreus</i>	78	0.6
Catostomidae	Largescale sucker	<i>Catostomus macrocheilus</i>	166	1.2
	Longnose sucker	<i>Catostomus catostomus</i>	974	6.8
	White sucker	<i>Catostomus commersoni</i>	16	.1
Cyprinidae	Northern pikeminnow	<i>Ptychocheilus oregonensis</i>	28	0.2
Total			14,257	100.0

The majority of species were recorded in all three sections (Table 3.3). Exceptions included the scarce species lake whitefish, pygmy whitefish, burbot, and northern pike, which occurred in only one or two sections. These findings were generally similar to those recorded during previous studies.

Table 3.3 Spatial distribution of fish species, 2008 Peace River Fish Community Indexing Program.

Name	Section		
	1	3	5
Arctic grayling	•	•	•
Bull trout	•	•	•
Kokanee	•	•	•
Lake whitefish		•	
Mountain whitefish	•	•	•
Pygmy whitefish	•		
Rainbow trout	•	•	•
Burbot		•	•
Northern pike	•		•
Walleye	•	•	•
Largescale sucker	•	•	•
Longnose sucker	•	•	•
White sucker	•	•	•
Northern pikeminnow	•	•	•

3.3 ARCTIC GRAYLING

3.3.1 Biological Characteristics

In total, 213 Arctic grayling were sampled for biological characteristics. Fork lengths of sampled populations ranged from 150 mm to 401 mm and represented fish Age 1 to Age 7. Age 0 and Age 6 fish were not recorded during the 2008 program.

Spatial Comparisons

Numbers of aged Arctic grayling were as follows -- 4 from Section 1 and 92 from Section 3, and 95 from Section 5 (Table 3.4). The low number from Section 1 precluded assessment of biological characteristics.

Arctic grayling from Sections 3 and 5 exhibited similar age and length distributions (Figure 3.4). Samples in each section were dominated by Ages 1, 2, and 3 fish (> 60% of sample). The primary spatial difference was the strong representation by Age 2 fish in Section 3 compared to Section 5 (50% versus 22% of sample, respectively).

There were no measurable differences between Section 3 and Section 5 in Arctic grayling growth based on von Bertalanffy growth curves (Figure 3.4) and length-at-age (Table 3.4).

Table 3.4 Mean length-at-age of sampled Arctic grayling, 2008 Peace River Fish Community Indexing Program.

Age	Section 1		Section 3		Section 5	
	<i>n</i>	Mean Fork Length (± SE)	<i>n</i>	Mean Fork Length (± SE)	<i>n</i>	Mean Fork Length (± SE)
0						
1			21	188.8 ± 3.3	27	192.0 ± 6.8
2	2	286.0 ± 8.0	46	266.6 ± 2.7	22	264.3 ± 4.9
3	2	326.0 ± 2.0	18	335.3 ± 3.9	31	332.6 ± 4.0
4			6	359.8 ± 12.8	14	355.5 ± 8.6
5			1	347	1	401
6						
7					1	394

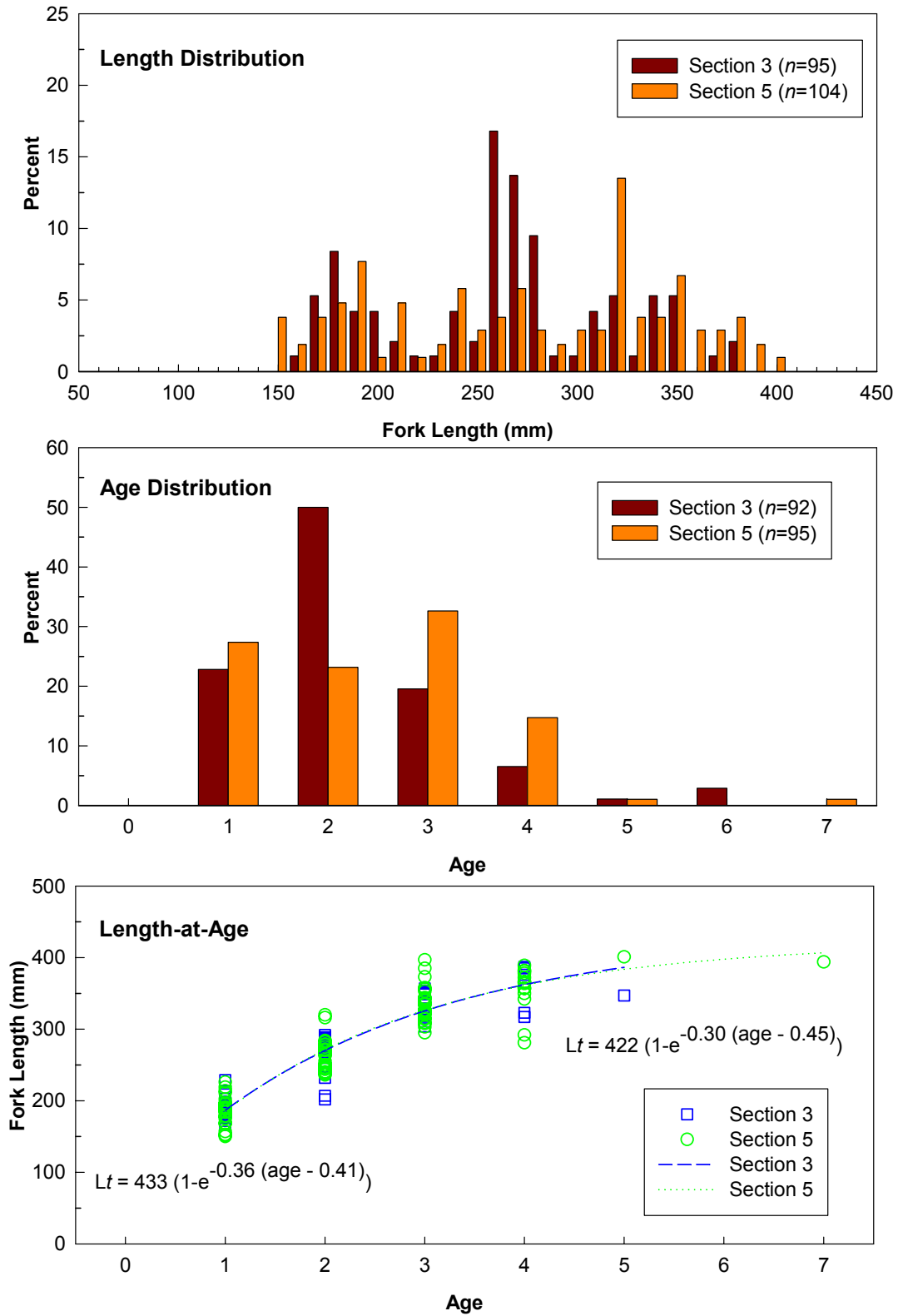


Figure 3.4 Length and age distributions and length-at-age relationships of sampled Arctic grayling, 2008 Peace River Fish Community Indexing Program.

Body condition-at-age of Arctic grayling also was similar among Sections 3 and 5 (Table 3.5).

Table 3.5 Mean body condition (K) of sampled Arctic grayling, 2008 Peace River Fish Community Indexing Program.

Age	Section 1		Section 3		Section 5	
	<i>n</i>	Mean Body Condition (\pm SE)	<i>n</i>	Mean Body Condition (\pm SE)	<i>n</i>	Mean Body Condition (\pm SE)
0						
1			21	1.22 \pm 0.02	26	1.19 \pm 0.02
2	1	1.42	45	1.30 \pm 0.01	22	1.28 \pm 0.02
3	2	1.34 \pm 0.15	18	1.31 \pm 0.04	31	1.23 \pm 0.03
4			6	1.33 \pm 0.04	14	1.30 \pm 0.04
5			1	1.35	1	1.18
6						
7					1	1.23

Annual Comparisons

Temporal changes were illustrated by the annual age (Figure 3.5) and length (Figure 3.6) distributions. In Section 3 strong representation by Age 1 fish in 2003, 2006, and 2007 resulted in a strong Age 2 class the following year. This was also evident for the strong Age 0 class in 2004 in Section 5. In both sections samples collected in most years were dominated by younger (\leq Age 2), smaller (\leq 300 mm fork length) fish. An exception to this pattern occurred in Section 5 in 2007 and again in 2008 when older fish (\geq Age 3) accounted for similar or greater percentage of the sample than younger fish.

Comparisons of Arctic grayling growth curves indicated no consistent annual trends in Section 3 (Figure 3.7). However, data from Section 5 suggested a decline in growth between 2004 and 2008. Comparisons of anabolic constants and associated 95% confidence intervals also illustrated this decline, but the differences between years were not significant (Figure 3.8).

Partitioning growth into age classes provided additional evidence of decreased growth over time in Section 3 and Section 5 (Figure 3.9). Based on 95% confidence intervals, length-at-age of Age 1 and Age 2 fish were significantly less in 2008 than in 2004. A similar, but weaker and nonsignificant decline was evident for Age 3 and Age 4 fish in Section 5.

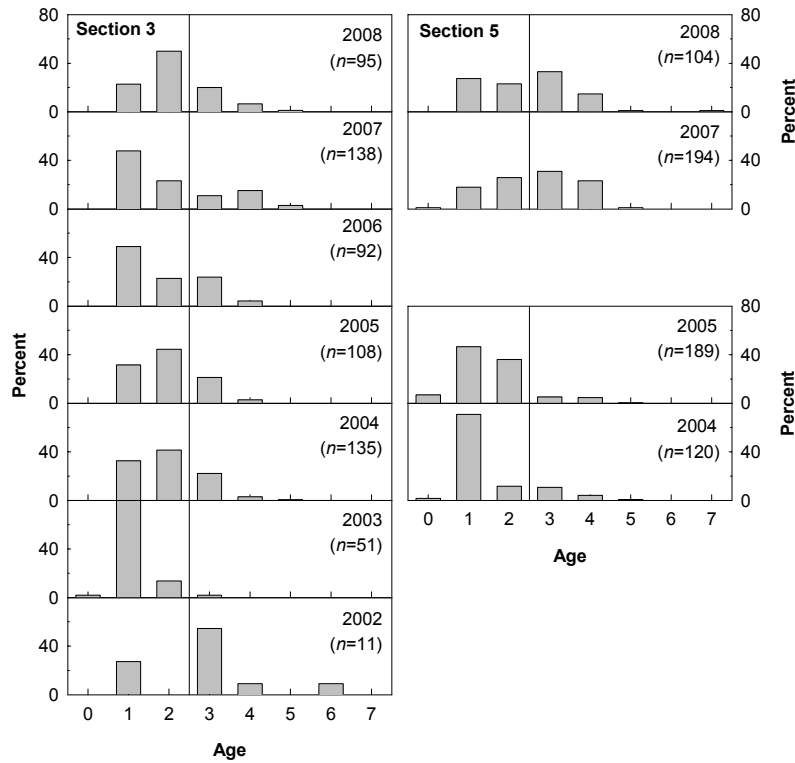


Figure 3.5 Age distributions of Arctic grayling sampled during the Peace River Fish Community Indexing Program, 2002 to 2008.

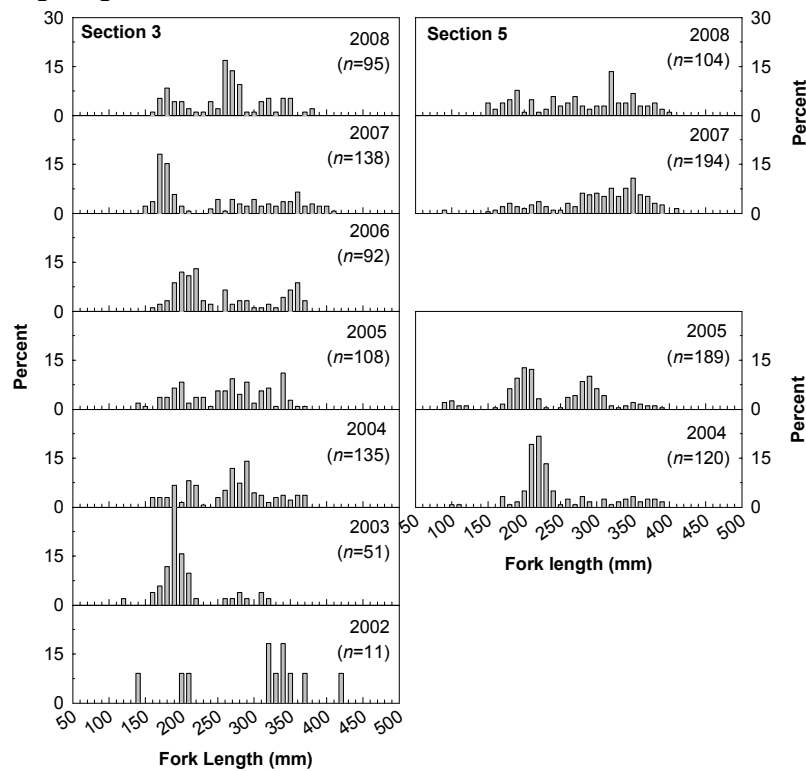


Figure 3.6 Length distributions of Arctic grayling sampled during the Peace River Fish Community Indexing Program, 2002 to 2008.

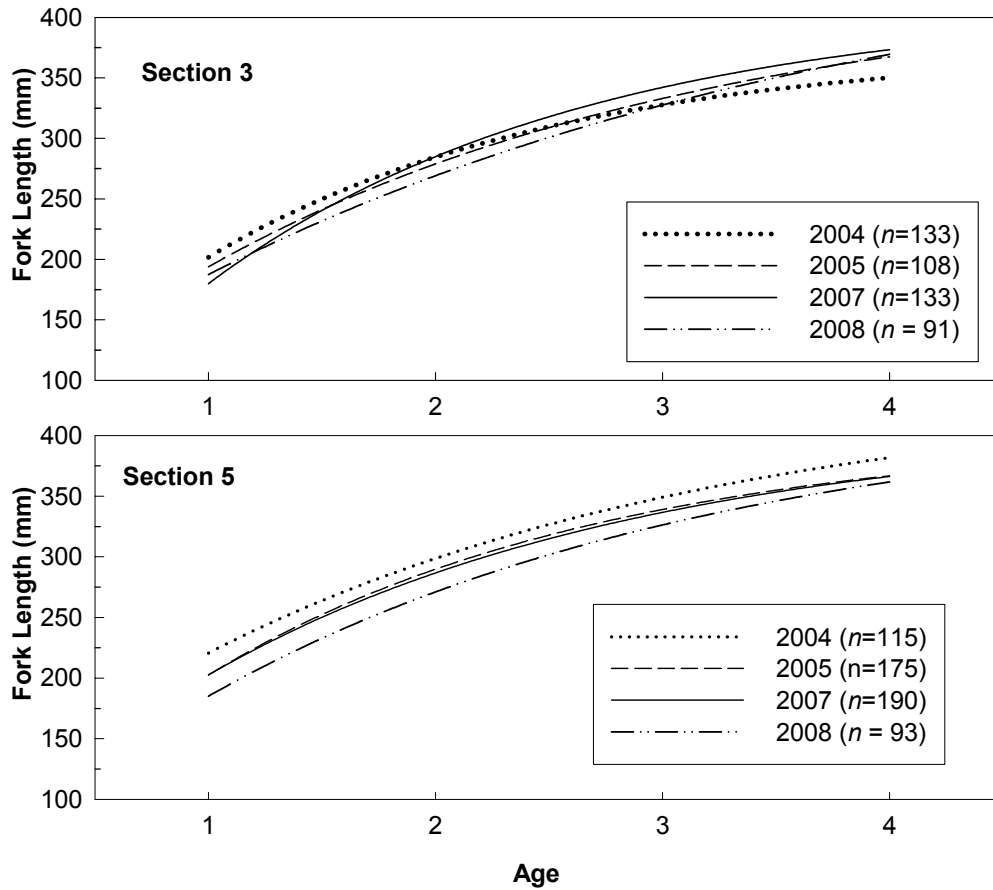


Figure 3.7 Growth curves of Arctic grayling sampled from the Peace River Fish Community Indexing Program, 2004, 2005, 2007, and 2008 (Section 3 data for 2002, 2003, and 2006 omitted due to lack of data or nonconvergence using the von Bertalanffy growth model; analyses restricted to Ages 1 to 4).

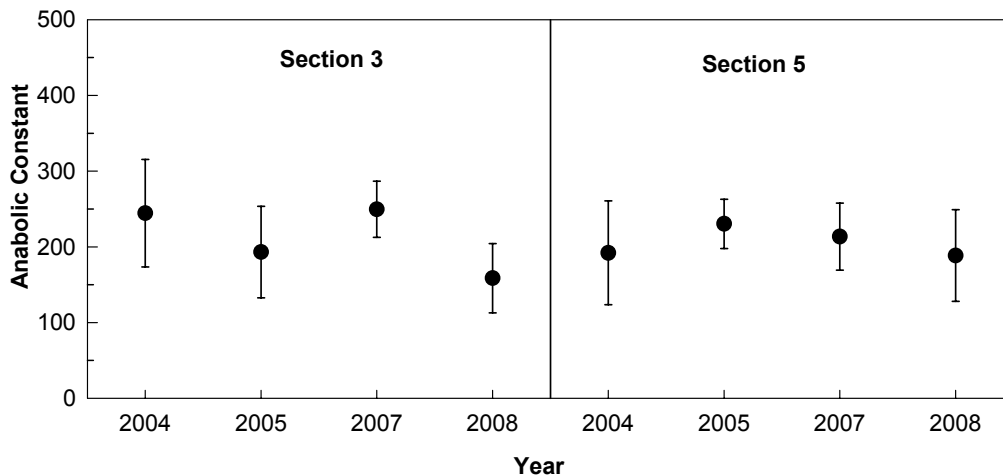


Figure 3.8 Anabolic constants of Arctic grayling sampled during the Peace River Fish Community Indexing Program, 2004 to 2008 (data for Age 1 to Age 4; vertical bars represent 95% confidence intervals).

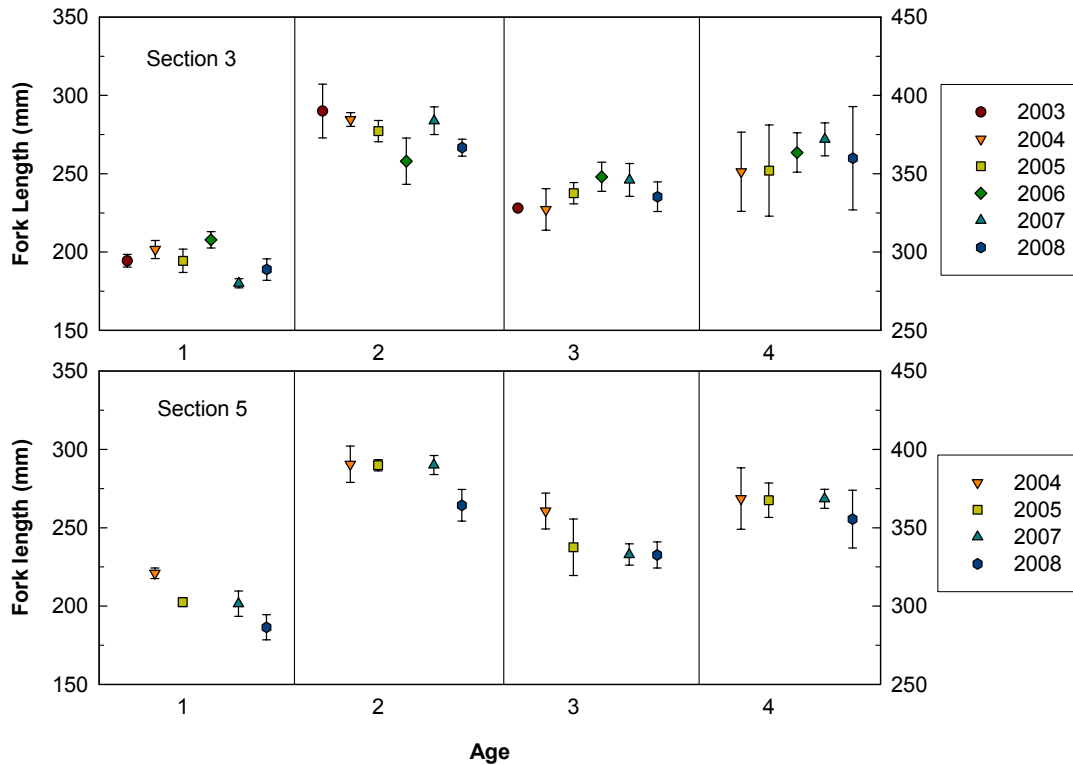


Figure 3.9 Mean length-at-age of Arctic grayling sampled during the Peace River Fish Community Indexing Program, 2003 to 2008 (vertical bars are 95% confidence intervals).

There have been annual differences in the body condition of some age classes during the program (Figure 3.10). For example, the condition of Age 1 fish in Section 5 was significantly lower in 2008 compared to 2007. There also appeared to be general downward trend in Arctic grayling body condition over time in both Section 3 and Section 5. In general these trends were not significant or consistent across age classes.

Mortality

Inspection of catch curves for Arctic grayling (all years combined) indicated that the fish become fully vulnerable to the capture gear at Age 1 (Figure 3.11). The apparent annual mortality was similar among Sections 3 and 5 (60% and 57%, respectively).

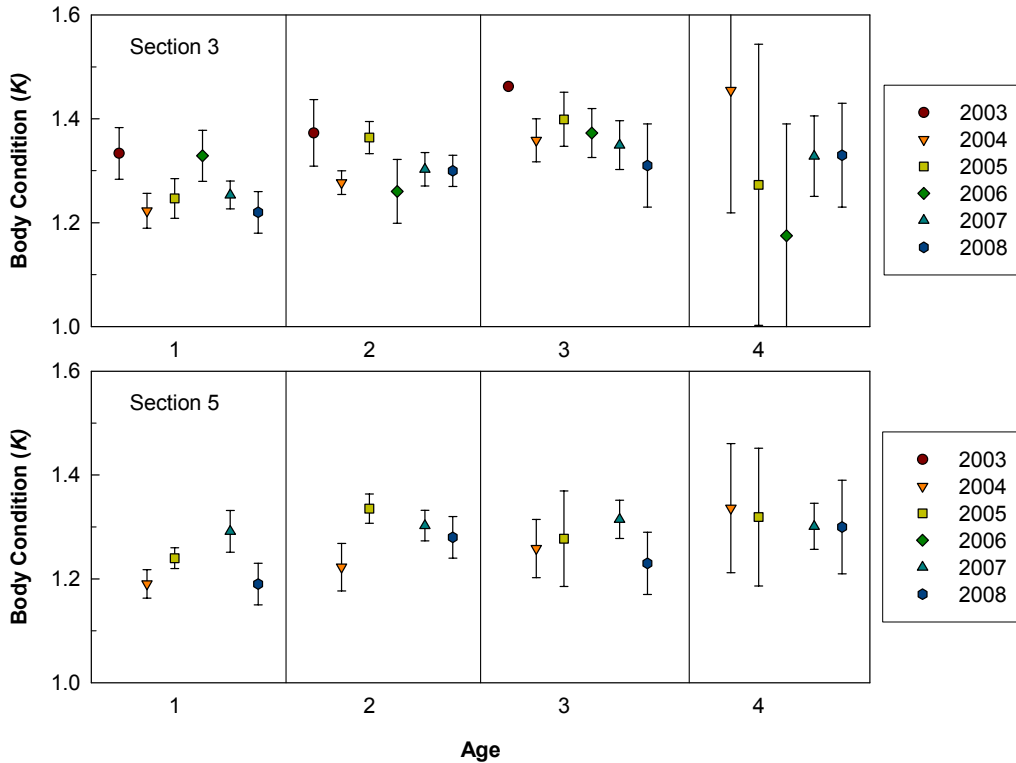


Figure 3.10 Mean body condition-at-age of Arctic grayling sampled during the Peace River Fish Community Indexing Program, 2003 to 2008 (vertical bars are 95% confidence intervals).

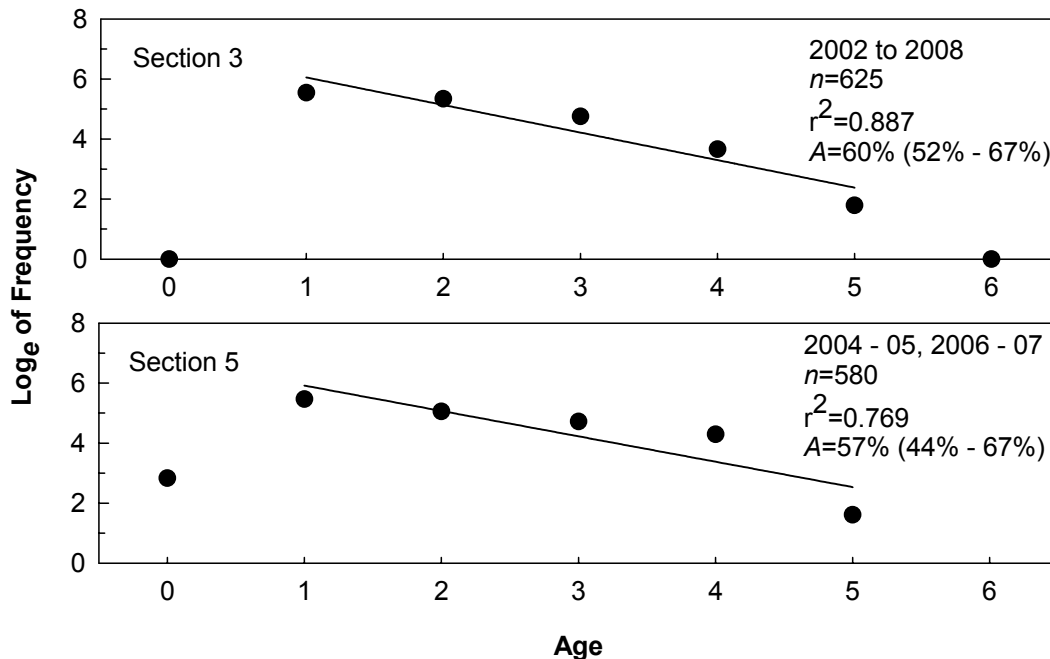


Figure 3.11 Catch curve annual mortality of Arctic grayling sampled during the Peace River Fish Community Indexing Program (combined data from 2002 to 2008; percentages in brackets represent 95% confidence intervals).

3.3.2 Catch Rate

Spatial Comparisons

Previous studies established that catch rates of target fish species were influenced by river section and habitat (Figure 3.12). Arctic grayling were scarce in Section 1 (≤ 0.07 fish/km) and moderately abundant in Sections 3 and 5 (≥ 1.0 fish/km). Average catch rates were higher in the SFC habitat compared to SFN habitat. These differences were 61% in Section 3 and 91% in Section 5.

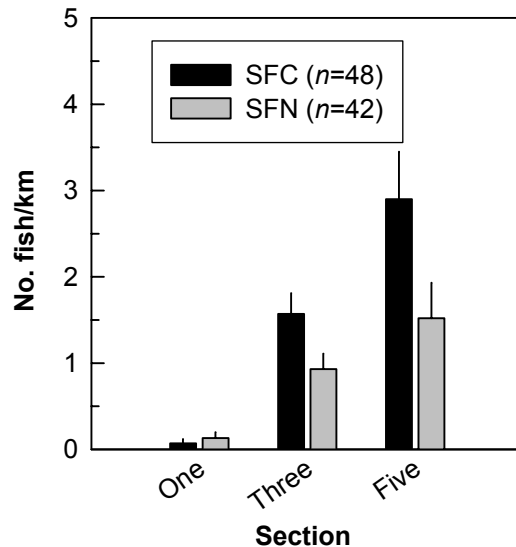


Figure 3.12 Mean catch rates of Arctic grayling stratified by section and habitat type, 2008 Peace River Fish Community Indexing Program (vertical bars represent standard error; see Table 2.2 for definitions of habitat type).

Annual Comparisons

Arctic grayling catch rates exhibited a sharp decline between 2007 and 2008 (Figure 3.13). Average values in Section 3 decreased from 2.12 fish/km to 1.27 fish/km. In Section 5 the decline was from 4.64 fish/km to 2.26 fish/km. The biological data did not show any large scale shift in population structure and sampling conditions were generally consistent between years, therefore these factors likely cannot explain the annual differences in catch rates. If it is assumed that catch rate is an accurate reflection of population size, factors not monitored by the program may be responsible changes in the apparent abundance of Arctic grayling in the indexing sections (e.g., angler harvest or dispersal from tributaries). Despite the large decline in catch rate between 2007 and 2008, average values of the present study were comparable to those of previous studies.

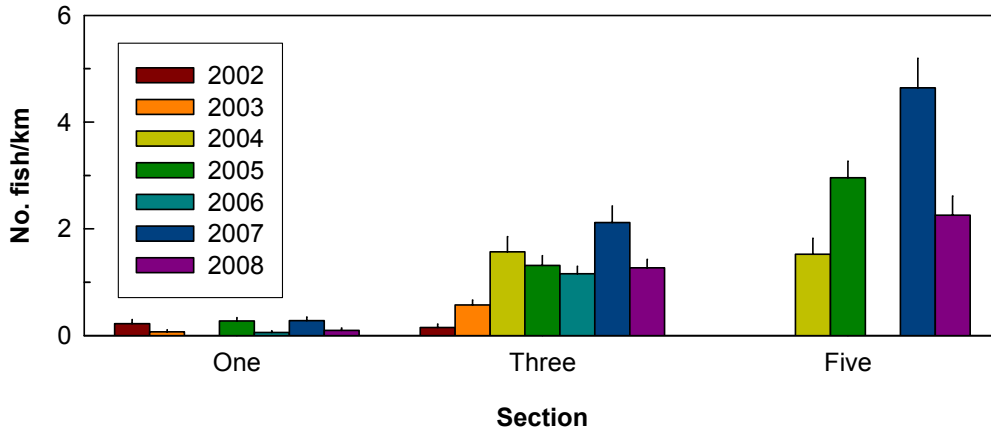


Figure 3.13 Mean catch rates of Arctic grayling during the Peace River Fish Community Indexing Program, 2002 to 2008 (based on combined weighted means and standard errors for SFC and SFN habitats; vertical bars represent standard errors).

3.3.3 Recruitment

The contribution of younger Arctic grayling (\leq Age 2) has been zero in Section 1 for the duration of the program (Figure 3.14). In Sections 3 and 5, younger Arctic grayling were recorded during most years. In Section 3 (following 2002 when few fish were encountered) the relative contribution of younger Arctic grayling remained constant. In Section 5, the relative contribution of younger Arctic grayling was more variable. Recruitment values were high in 2004 and 2005, but then dropped to values comparable to those in Section 3 during 2007 and 2008.

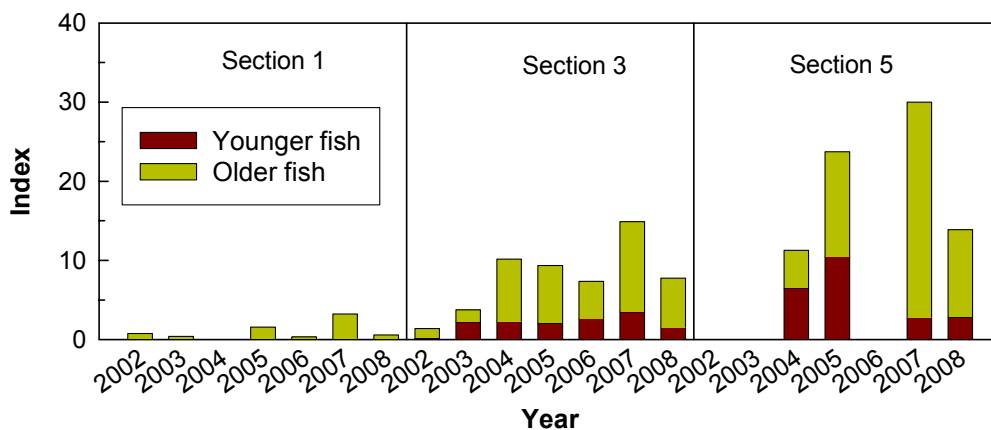


Figure 3.14 Recruitment indices of younger and older Arctic grayling during the Peace River Fish Community Indexing Program, 2002 to 2008 (see Section 2.2.5 for definition of age groups).

The relative contribution of older Arctic grayling varied during the period of record. After 2003, the contribution varied by as much as 100%. In Section 5, indices for older fish were higher as was the range in values. The pattern recorded for older Arctic grayling did not appear to be related to the relative contribution of the younger group during the preceding years.

3.4 BULL TROUT

3.4.1 Biological Characteristics

In total, 170 bull trout were sampled for biological characteristics -- 24 from Section 1, 89 from Section 3, and 57 from Section 5. Fork lengths ranged from 197 mm to 770 mm with ages ranging from Age 2 to 10.

Spatial Comparisons

Length and age distributions of bull trout were similar among sections (Figure 3.15). No fish younger than Age 2 were encountered; however, subadult fish (Ages 2 to 5) dominated in all sections (> 80% of each sample). Age 3 fish was the most prominent group in Section 1 (42%), while Age 4 fish dominated in Sections 3 and 5 (39% and 35%, respectively). Adult bull trout (\geq Age 6) were not abundant. Section 3 was the only area where this group was encountered in any number ($n = 11$).

The von Bertalanffy growth equation was applied to bull trout sampled from Section 3; non-convergence of growth curves caused by the absence of older fish required use of linear regression to describe bull trout growth in Sections 1 and 5 (Figure 3.15). These growth curves and length-at-age data from Table 3.6 indicated that subadult fish in all three sections grow at a similar rate and very rapidly (approximately 75 mm per year).

Spatial differences in sample populations were not apparent from mean length-at-age (Table 3.6) and mean body condition-at-age (Table 3.7).

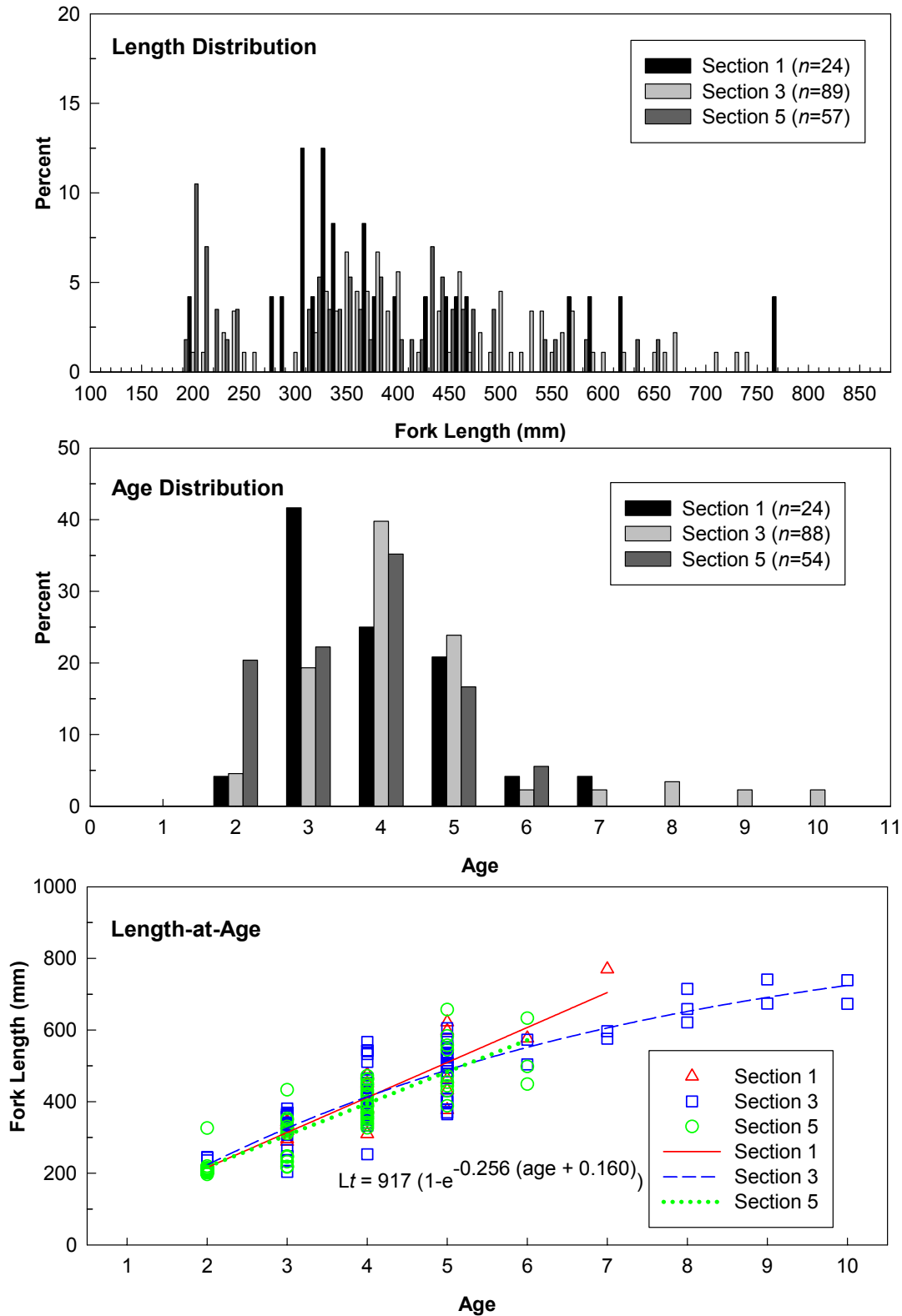


Figure 3.15 Length and age distributions and length-at-age relationships of sampled bull trout, 2008 Peace River Fish Community Indexing Program.

Table 3.6 Mean length-at-age of sampled bull trout, 2008 Peace River Fish Community Indexing Program.

Age	Section 1		Section 3		Section 5	
	<i>n</i>	Mean Fork Length (\pm SE)	<i>n</i>	Mean Fork Length (\pm SE)	<i>n</i>	Mean Fork Length (\pm SE)
1	-		-		-	
2	1	208	4	234.3 \pm 7.7	11	218.0 \pm 11.0
3	10	323.7 \pm 6.0	17	320.7 \pm 12.6	12	298.1 \pm 19.2
4	6	400.0 \pm 24.0	35	414.1 \pm 11.6	19	397.3 \pm 10.9
5	5	498.4 \pm 47.7	21	491.0 \pm 14.8	9	503.2 \pm 28.9
6	1	577	2	538.5 \pm 34.5	3	526.7 \pm 55.0
7	1	770	2	586.5 \pm 10.5		
8			3	665.0 \pm 27.3		
9			2	707.5 \pm 33.5		
10			2	706.0 \pm 33.0		

Table 3.7 Mean body condition (*K*) of sampled bull trout, 2008 Peace River Fish Community Indexing Program.

Age	Section 1		Section 3		Section 5	
	<i>n</i>	Mean Body Condition (\pm SE)	<i>n</i>	Mean Body Condition (\pm SE)	<i>n</i>	Mean Body Condition (\pm SE)
1						
2	1	0.98	4	0.93 \pm 0.05	10	1.12 \pm 0.12
3	3	1.19 \pm 0.08	16	1.05 \pm 0.02	11	1.02 \pm 0.02
4	4	1.10 \pm 0.08	35	1.05 \pm 0.03	19	1.01 \pm 0.02
5	4	1.23 \pm 0.08	21	1.05 \pm 0.03	9	1.05 \pm 0.05
6	1	1.59	2	1.31 \pm 0.23	3	0.99 \pm 0.01
7	1	1.14	2	1.07 \pm 0.05		
8			3	1.22 \pm 0.22		
9			2	1.19 \pm 0.15		
10			2	0.88 \pm 0.02		

Annual Comparisons

Age and length distributions of the combined sample (Sections 1, 3 and 5) remained stable across years (Figure 3.16 and Figure 3.17, respectively). In all years Age 0 and Age 1 fish were largely absent. Age distributions were dominated by subadults (Age 2 to Age 5) and adult fish (\geq Age 6) were poorly represented. An important caveat should be placed on these results. The absence of adult fish from the index sections was likely caused by use of tributaries for spawning during the study period. As such, the results do not reflect the actual age structure of the Peace River bull trout population.

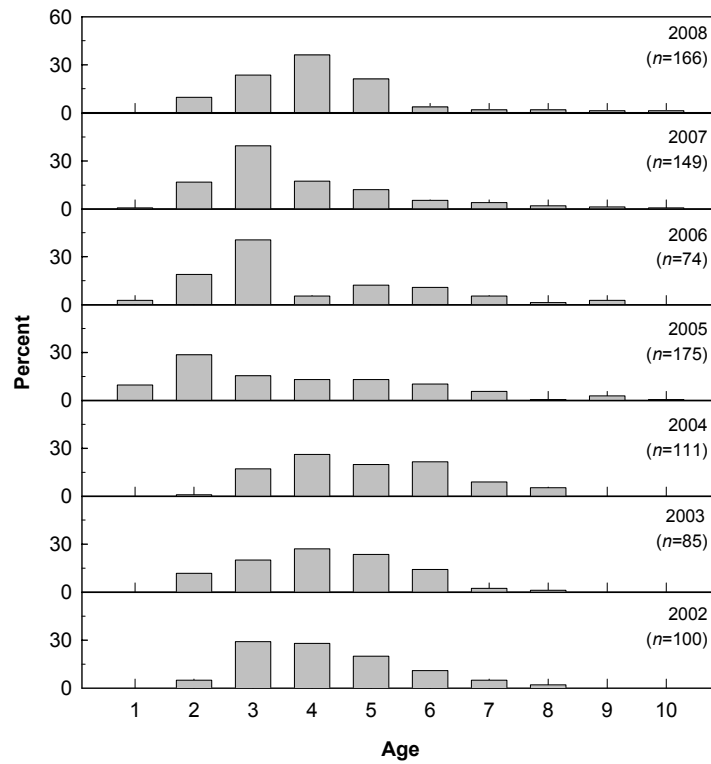


Figure 3.16 Age distributions of bull trout sampled during the Peace River Fish Community Indexing Program, 2002 to 2008 (data for all sections combined).

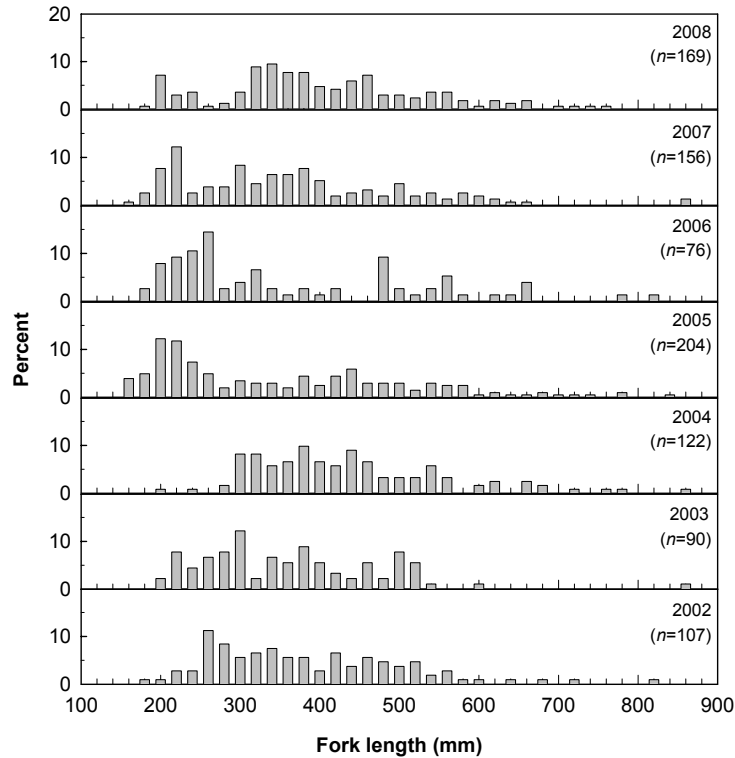


Figure 3.17 Length distributions of bull trout sampled during the Peace River Fish Community Indexing Program, 2002 to 2008 (data for all sections combined).

Annual differences in growth were not examined using the von Bertalanffy growth model due to the paucity of older fish. However, annual growth rates of subadult fish could be compared using the length-at-age slopes (Figure 3.18). Annual growth of fish Aged 2 to 6 was approximately 75 mm per year. There was some variation around this value, but 95% confidence intervals indicated no significant differences between most years.

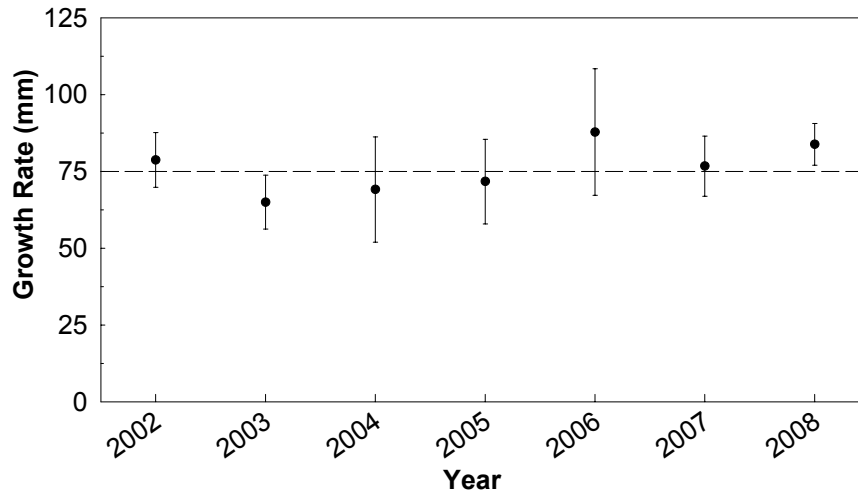


Figure 3.18 Growth rates of bull trout sampled during the Peace River Fish Community Indexing Program, 2002 to 2008 (analyses based on mean length-at-age; restricted to subadults [Age 2 to Age 6]; data from all sections combined).

Some annual differences were apparent. Capture of Age 1 was recorded in 2005 and 2006. These age classes have influenced the population structure, as illustrated by the 2005 Age 1.

Partitioning the results by age suggested a general increase of growth rates over time for Age 3 to Age 6 fish; however, comparisons of 95% confidence intervals indicated few significant differences (Figure 3.19). It should be noted that interpretation of these results are hindered by the wide confidence intervals. No temporal changes in body condition were apparent from the data (Figure 3.20).

Mortality

Inspection of the catch curve for bull trout (all years and sections combined) indicates that the fish become fully vulnerable at Age 3 (Figure 3.21). The apparent annual mortality was 45%. As for the population age structure, the results should be interpreted with caution because of the scarcity of adult fish during the study period.

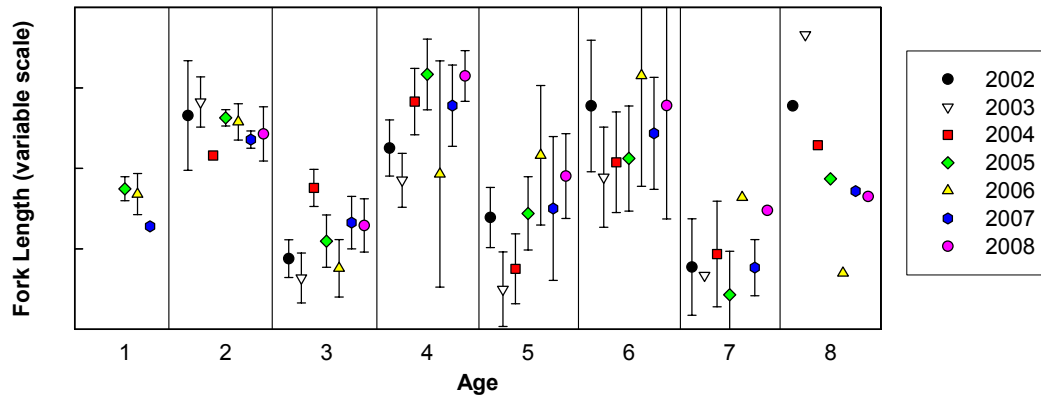


Figure 3.19 Mean length-at-age of bull trout sampled during the Peace River Fish Community Indexing Program, 2002 to 2008 (data from all sections combined; bars are 95% confidence intervals).

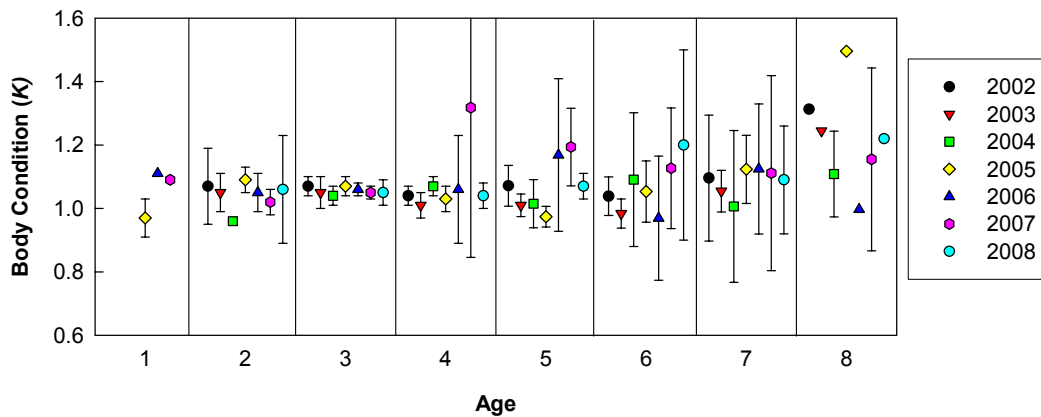


Figure 3.20 Mean body condition-at-age of bull trout sampled during the Peace River Fish Community Indexing Program, 2002 to 2008 (all sections combined; bars are 95% confidence intervals).

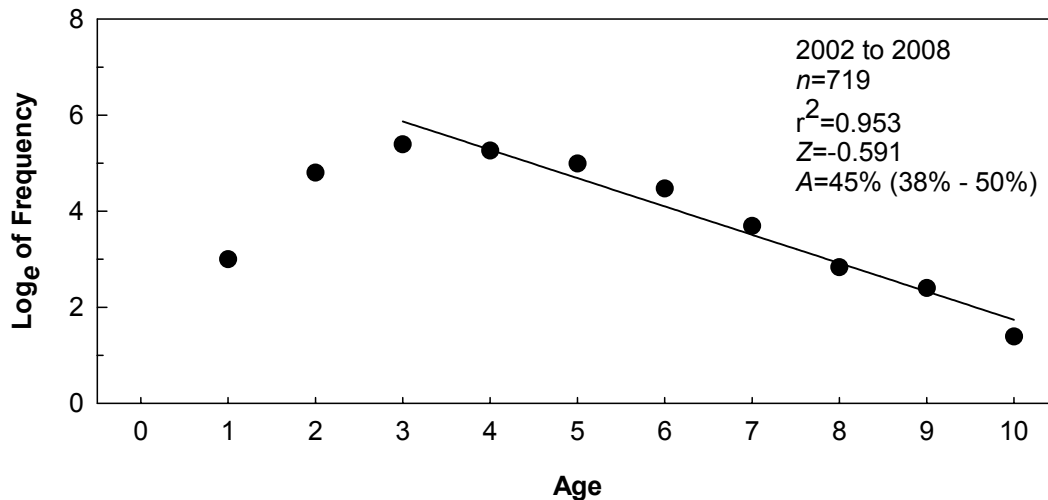


Figure 3.21 Catch curve annual mortality of bull trout sampled during the Peace River Fish Community Indexing Program (combined data from 2002 to 2008; percentages in brackets represent 95% confidence intervals).

3.4.2 Catch Rate

Spatial Comparisons

Bull trout catch rates were less than 1.5 fish/km (Figure 3.22). In SFC habitats average catch rates increased from upstream to downstream – 0.76 fish/km in Section 1, 1.17 fish/km in Section 3, and 1.44 fish/km in Section 5. There was no strong spatial trend in SFN habitats, but bull trout catch rates in this habitat also were lowest in Section 1.

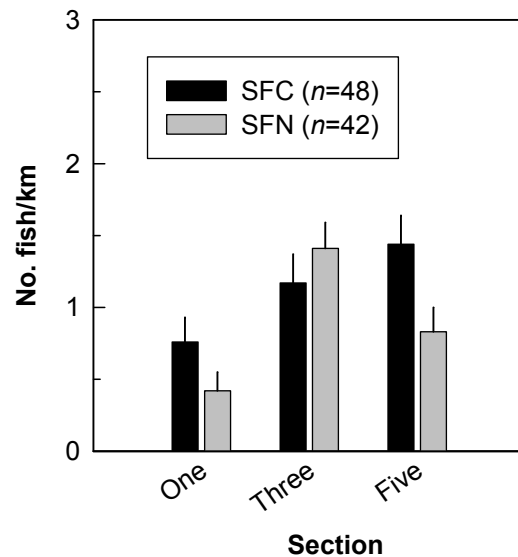


Figure 3.22 Mean catch rates of bull trout stratified by section and habitat type, 2008 Peace River Fish Community Indexing Program (vertical bars represent standard error; see Table 2.2 for definitions of habitat type).

Annual Comparisons

Bull trout catch rates were low (< 1.75 fish/km) in all sections during all sample years (Figure 3.23). There have been no large changes in bull trout catch rates in Section 1 since 2003, where average values have consistently remained below 1 fish/km. In contrast, bull trout catch rates appeared to increase over time in Section 3 and in Section 5. Beginning in 2006, bull trout catch rates in Section 3 have increased from 0.74 fish/km to 1.28 fish/km, or a change of 73%. In Section 5, catch rates increased continuously from 0.52 fish/km in 2004 (the first year of study) to a high of 1.16 fish/km in 2008, a change of 123%.

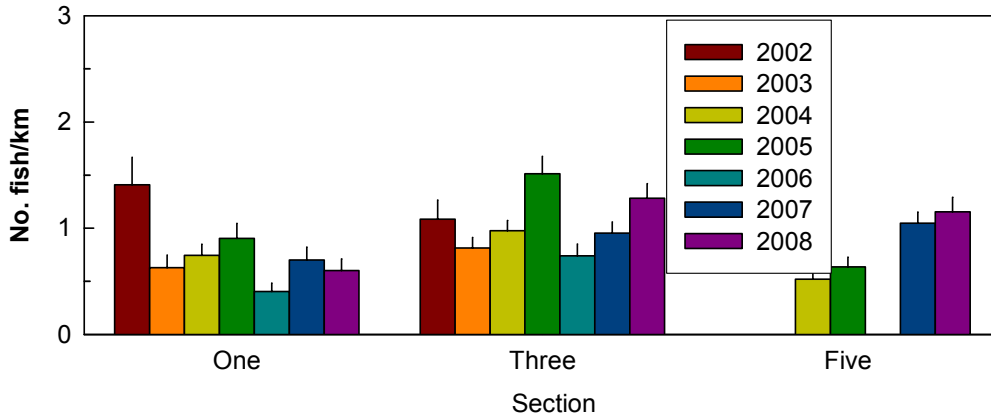


Figure 3.23 Mean catch rates of bull trout during the Peace River Fish Community Indexing Program, 2002 to 2008 (based on combined weighted means and standard errors for SFC and SFN habitats; vertical bars represent standard errors).

3.4.3 Recruitment

Younger bull trout were recorded in each section during most years of the study, but their contribution to the sample was very low compared to that of older fish (Figure 3.24). Although very low, the index for younger fish increased after 2004 in Section 3 and Section 5. This provided evidence of increased recruitment into those two sampled populations. In contrast, the index remained very low in Section 1.

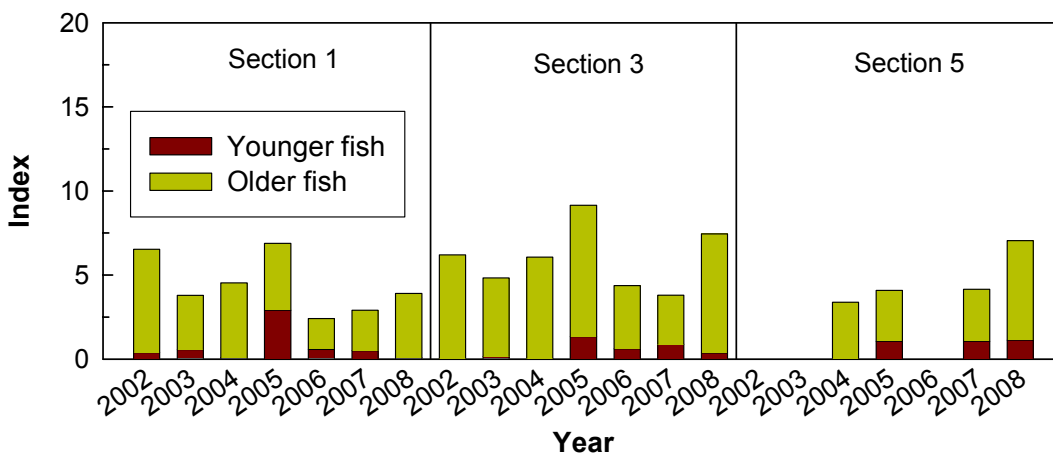


Figure 3.24 Recruitment index of younger and older bull trout in Sections 1, 3, and 5 during the Peace River Fish Community Indexing Program, 2002 to 2008 (see Section 2.2.5 for definition of age groups).

3.5 MOUNTAIN WHITEFISH

3.5.1 Biological Characteristics

In total, 7775 mountain whitefish fish were available for analyses; 2300 from Section 1, 3361 from Section 3, and 2114 from Section 5. Fork lengths ranged from 67 mm to 512 mm with ages ranging from Age 0 to Age 11. Age 0 fish were not well represented in the sample ($n = 83$; 1% of the total). A random sample of 696 mountain whitefish was aged for biological characteristics analyses (9% of the total).

Spatial Comparisons

A comparison of length and age distributions of mountain whitefish indicated that there were spatial differences in sampled populations (Figure 3.25). The Section 1 sample exhibited a truncated length distribution with one primary (300 mm) and one secondary (200 mm) modal peak. This pattern was caused by the dominance of Age 4 to Age 6 fish, which accounted for 65% of the sample. Younger fish (Age 0 and Age 1) were largely absent as were fish older than Age 7. In contrast, samples from Section 3 and 5 exhibited broad multi-modal length distributions. Modal peaks occurred at approximately 150 mm, 200 mm, and 280 mm. These corresponded to Ages 1, 2, and 4-5, respectively. In contrast to Section 1, Ages 1 and fish older than Age 7 were well represented.

The length-at-age results suggested spatial differences in growth (Table 3.8, Figure 3.25). The mean length of Age 2 fish decreased from upstream to downstream (215 mm in Section 1; 204 mm in Section 3; 196 mm in Section 5). Results were ambiguous for Ages 3 and 4. However, mean length of Age 5 and older fish tended to increase from upstream to downstream.

Table 3.8 Mean length-at-age of sampled mountain whitefish, 2008 Peace River Fish Community Indexing Program.

Age	Section 1		Section 3		Section 5	
	<i>n</i>	Mean Fork Length (\pm SE)	<i>n</i>	Mean Fork Length (\pm SE)	<i>n</i>	Mean Fork Length (\pm SE)
0			1	67	2	85.0 \pm 2.0
1			17	154.6 \pm 1.7	7	150.6 \pm 4.0
2	27	215.1 \pm 2.4	84	204.1 \pm 1.3	53	195.6 \pm 1.3
3	33	257.6 \pm 2.0	39	249.8 \pm 2.4	20	262.0 \pm 5.6
4	50	285.3 \pm 2.5	67	284.9 \pm 2.0	35	293.9 \pm 4.2
5	41	307.4 \pm 2.8	55	309.7 \pm 2.8	21	320.4 \pm 6.9
6	39	325.3 \pm 3.0	25	342.6 \pm 3.6	19	352.6 \pm 7.4
7	9	339.4 \pm 9.8	19	359.3 \pm 4.9	12	355.4 \pm 10.0
8			4	406.5 \pm 17.8	6	391.7 \pm 14.7
9	1	434	1	420.	4	390.8 \pm 26.8
10					2	408.5 \pm 9.5
11	1	445	1	424	1	512

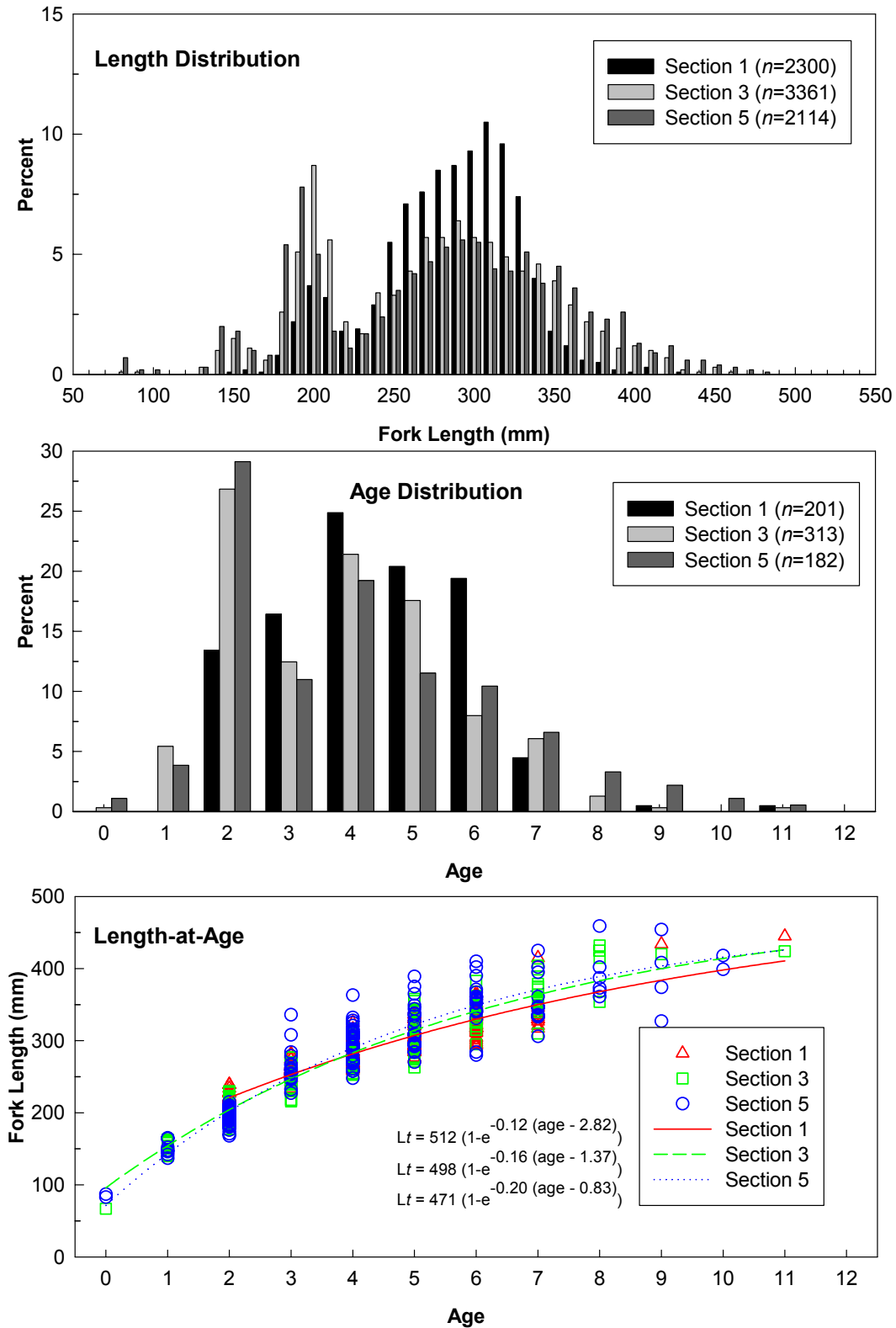


Figure 3.25 Length and age distributions and length-at-age relationships of sampled mountain whitefish, 2008 Peace River Fish Community Indexing Program.

Visual examination of growth curves illustrated spatial differences in growth. Younger fish (\leq Age 4) exhibited similar growth rates; however older fish in Section 1 had a lower growth rate than fish in Sections 3 and 5. This pattern was very similar to results recorded during previous studies.

Mountain whitefish body condition differed by section in 2008 (Table 3.9). The condition estimates for Age 2 to Age 6 fish were higher in Section 1 compared to Sections 3 and 5. Again, this pattern is very similar to results recorded during previous studies.

Table 3.9 Mean body condition (K) of sampled mountain whitefish, 2008 Peace River Fish Community Indexing Program.

Age	Section 1		Section 3		Section 5	
	n	Mean Body Condition (\pm SE)	n	Mean Body Condition (\pm SE)	n	Mean Body Condition (\pm SE)
0			1	1.33	2	0.81 \pm 0.11
1			17	1.07 \pm 0.03	7	1.08 \pm 0.04
2	27	1.13 \pm 0.01	83	1.07 \pm 0.01	53	1.04 \pm 0.01
3	32	1.22 \pm 0.02	39	1.12 \pm 0.01	20	1.12 \pm 0.02
4	50	1.22 \pm 0.01	67	1.13 \pm 0.01	34	1.15 \pm 0.02
5	41	1.20 \pm 0.02	55	1.11 \pm 0.01	21	1.12 \pm 0.02
6	39	1.17 \pm 0.02	25	1.09 \pm 0.02	19	1.09 \pm 0.02
7	9	1.09 \pm 0.03	19	1.08 \pm 0.02	11	1.11 \pm 0.05
8			4	1.05 \pm 0.02	6	1.08 \pm 0.05
9	1	1.17	1	0.96	4	1.12 \pm 0.06
10					2	1.05 \pm 0.08
11	1	1.16	1	1.30	1	1.14

Annual Comparisons

Age and length distributions within each section generally remained stable between 2002 and 2008 (Figure 3.26 and 3.27). Section 1 age and length distributions were primarily unimodal and exhibited weak contributions of younger fish (\leq Age 1) and rapid declines in the percentage of fish older than Age 7. Younger (Age 1 and Age 2) and older fish (\geq Age 7) were well represented in length and age distributions Sections 3 and 5. No strong changes in age and length distributions have been recorded during the program.

Comparisons of mountain whitefish growth curves indicated no consistent trends over time in any of the index sections (Figure 3.28). Comparisons of anabolic constants and associated 95% confidence intervals indicated only minor year to year differences in mountain whitefish growth within each section (Figure 3.29). None were significant.

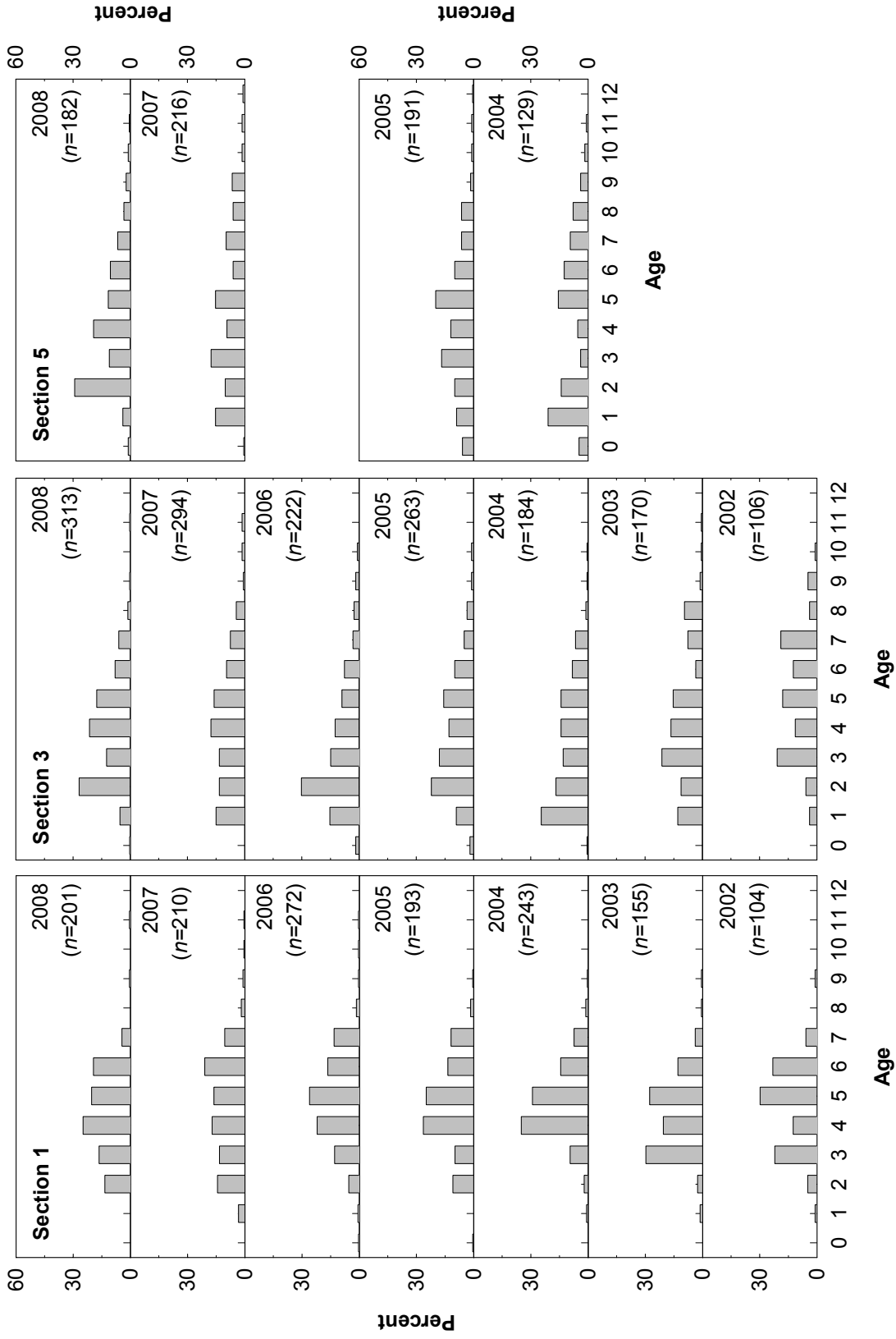


Figure 3.26 Age distributions of mountain whitefish sampled during the Peace River Fish Community Indexing Program, 2002 to 2008.

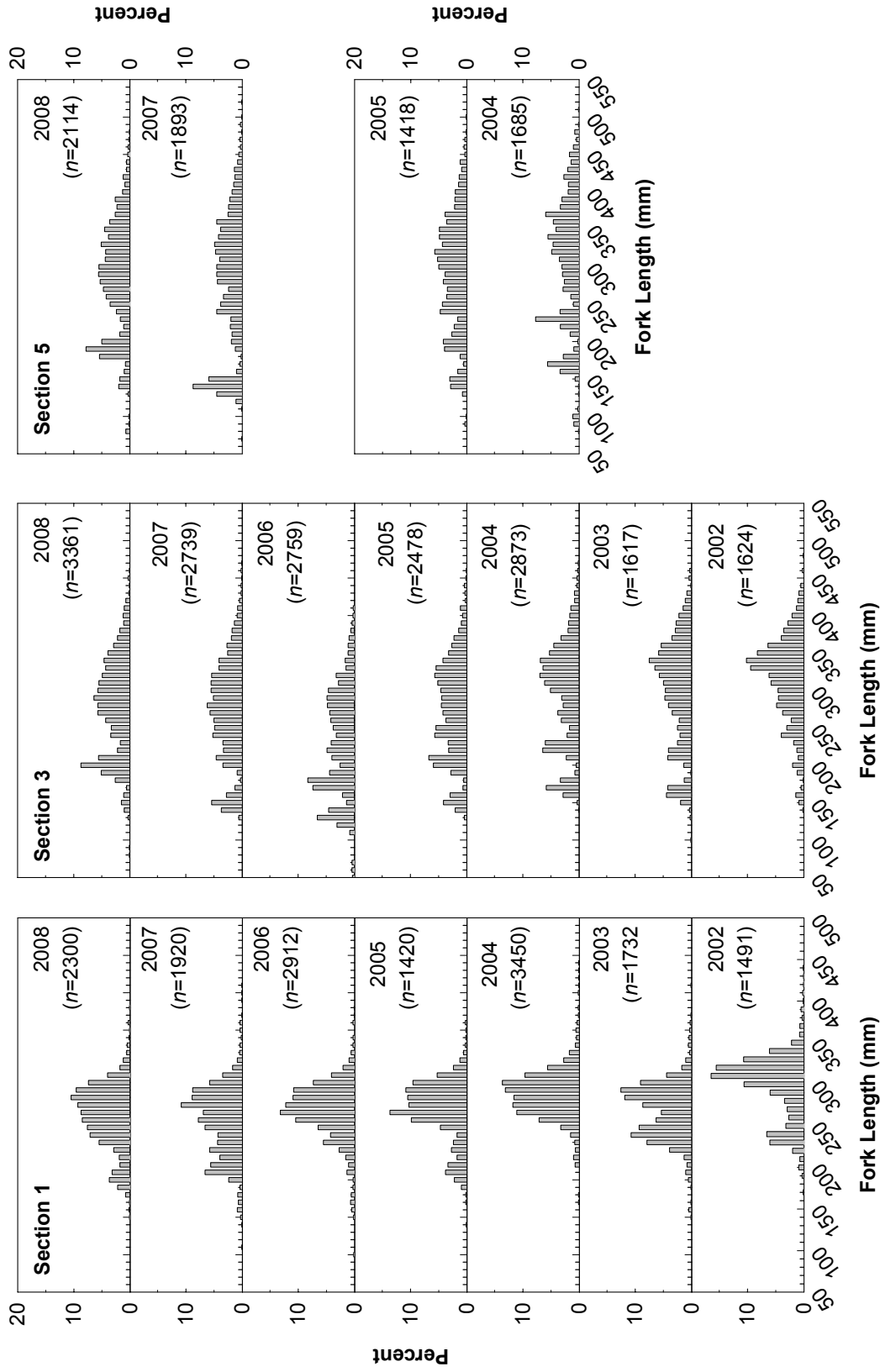


Figure 3.27 Length distributions of mountain whitefish sampled during the Peace River Fish Community Indexing Program, 2002 to 2008.

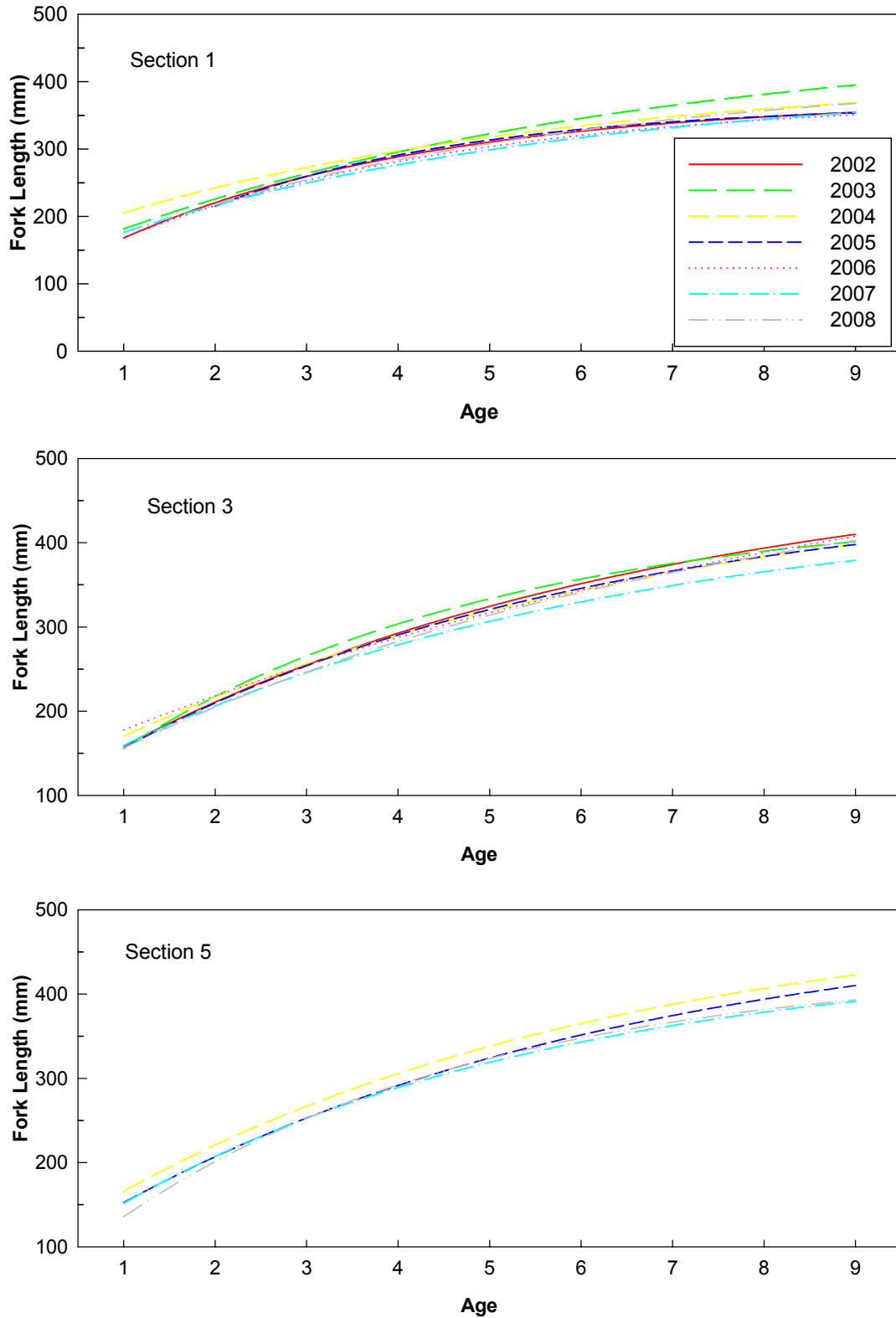


Figure 3.28 Comparisons of growth curves of mountain whitefish sampled during the Peace River Fish Community Indexing Program, 2002 to 2008 (analyses restricted to Ages 1 to 9).

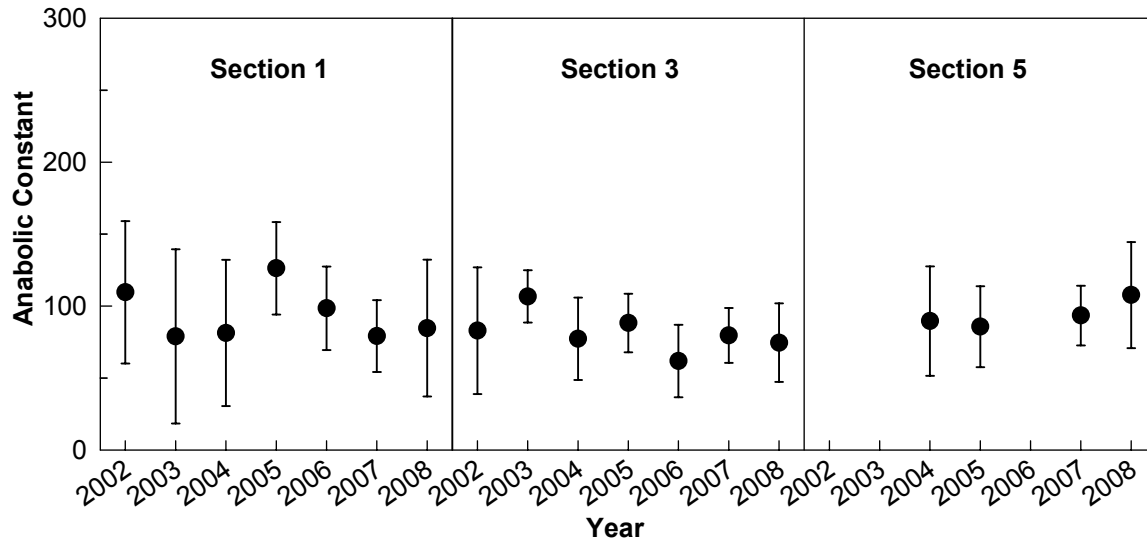


Figure 3.29 Anabolic constants of mountain whitefish sampled during the Peace River Fish Community Indexing Program, 2002 to 2008 (analyses restricted to Ages 1 to 9; vertical bars represent 95% confidence intervals).

Comparisons of annual mean length-at-age of mountain whitefish suggested annual trends for some age classes (Figure 3.30). No distinct patterns were apparent in Age 1 and Age 2 fish. Starting in 2003 there was a general downward trend in mean length-at-age of fish from Age 3 to Age 6 in all three sections. The 95% confidence intervals indicated that several estimates recorded in 2003 and 2007 were significantly different. However, this downward trend appeared to have stopped in 2008. Mean-length-at-age increased for most age classes in most sections.

There have been annual differences in the body condition of some age classes during the program, but there was no obvious unidirectional trend (Figure 3.31).

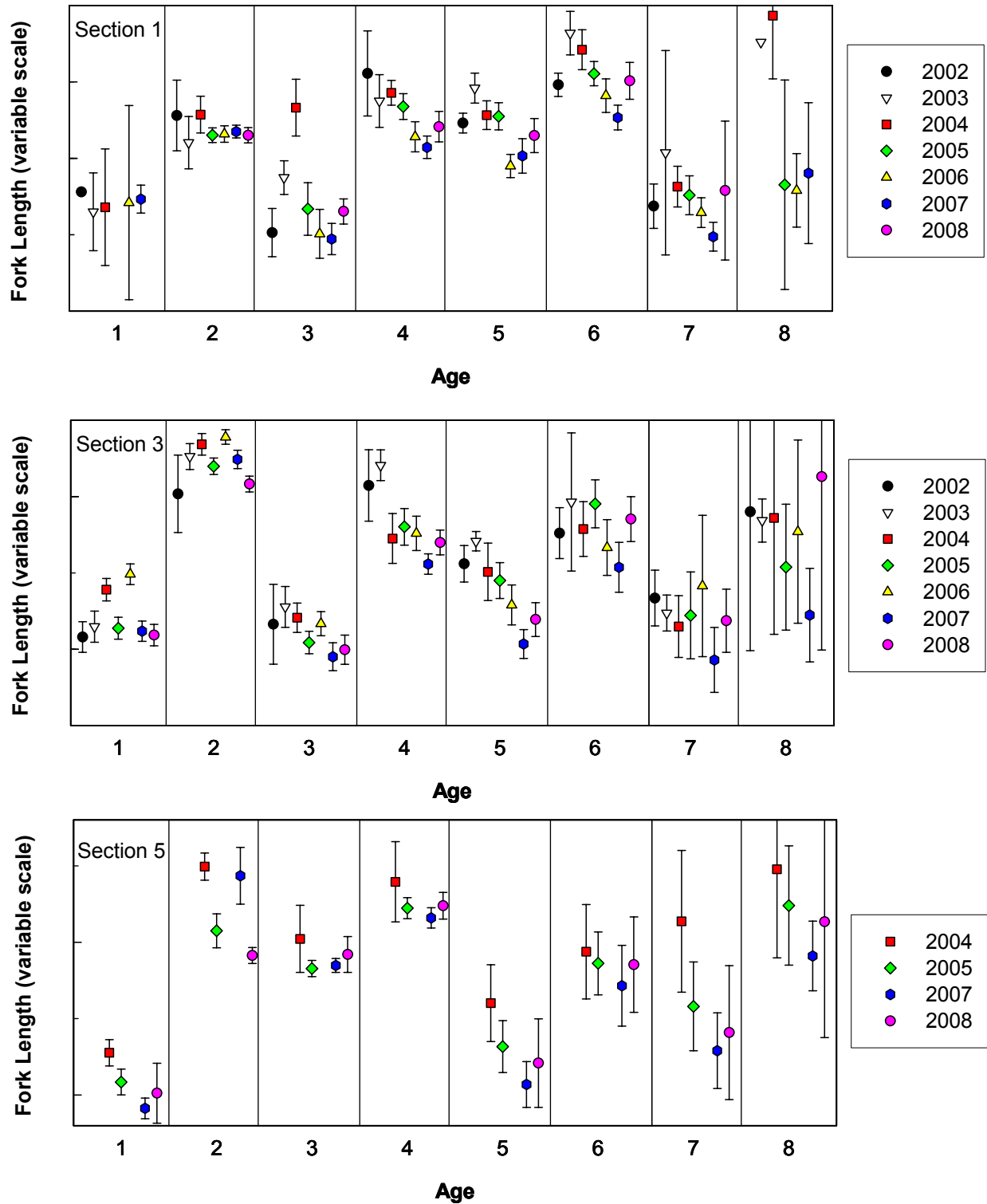


Figure 3.30 Mean length-at-age of mountain whitefish during the Peace River Fish Community Indexing Program, 2002 to 2008 (vertical bars are 95% confidence intervals).

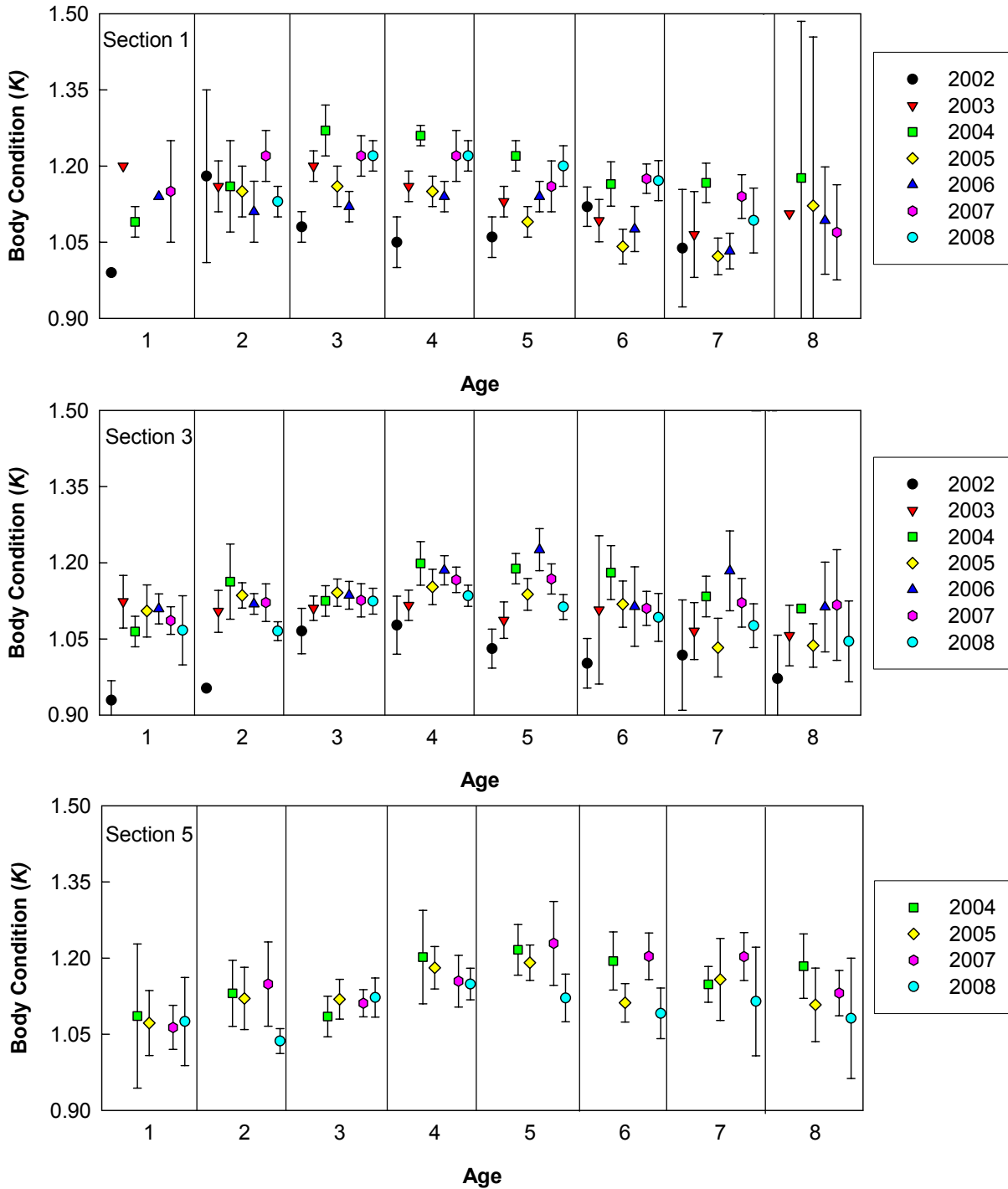


Figure 3.31 Mean body condition-at-age of mountain whitefish during the Peace River Fish Community Indexing Program, 2002 to 2008 (vertical bars are 95% confidence intervals).

Mortality

The catch curve of mountain whitefish in each section indicated that fish were fully recruited at Age 3 (Figure 3.32). The apparent annual mortality was highest in Section 1 (60%), intermediate in Section 3 (47%), and lowest in Section 5 (39%). Based on 95% confidence intervals, the differences between these values were significant or near significant.

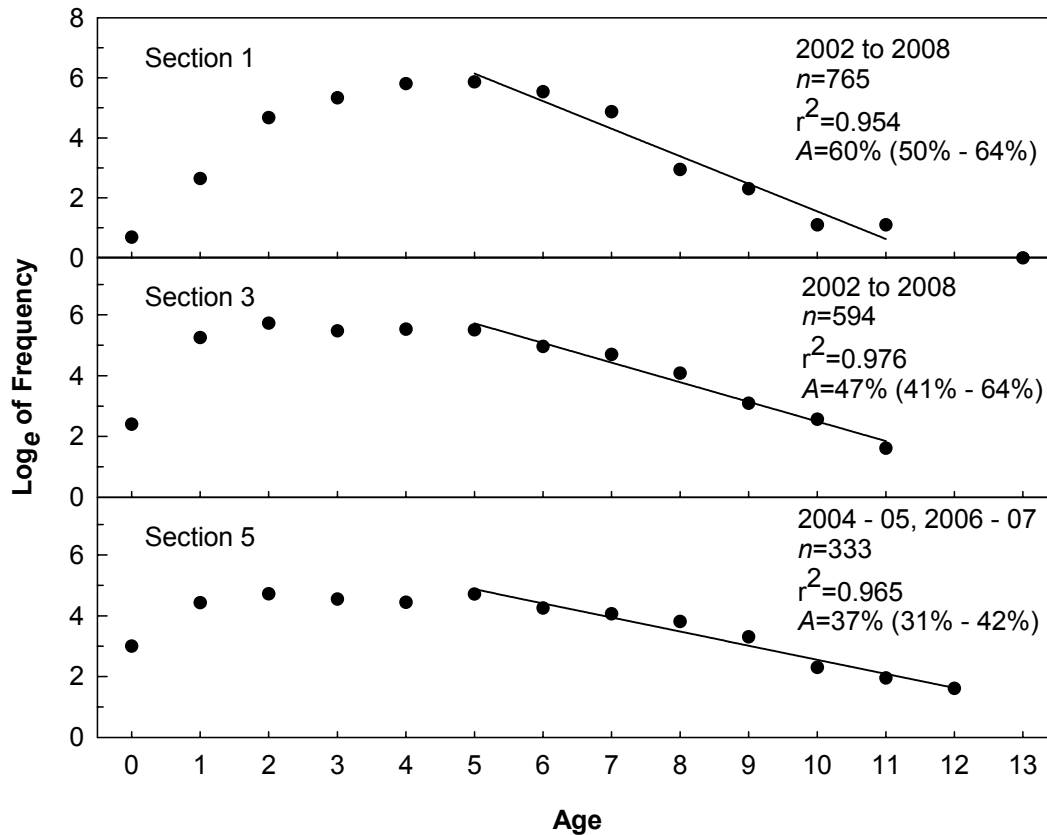


Figure 3.32 Catch curve annual mortality of mountain whitefish sampled during the Peace River Fish Community Indexing Program (combined data from 2002 to 2008; percentages in brackets represent 95% confidence intervals).

3.5.2 Catch Rate

Spatial Comparisons

Catch rates of mountain whitefish differed by section and habitat type (Figure 3.33). Mean catch rates in each section were higher in SFN habitats compared to SFC habitat. The greatest difference occurred in Section 1 (59.1 fish/km versus 39.7 fish/km, respectively). Catch rates also decreased from upstream to downstream. Average values in SFN habitat were 59.1 fish/km (Section 1), 50.0 fish/km (Section 3), and 41.2 fish/km (Section 5). The spatial trend was not as distinct in SFC habitat. Catch rates were highest in Section 3 (43.8 fish/km) and lowest in Section 5 (39.6 fish/km).

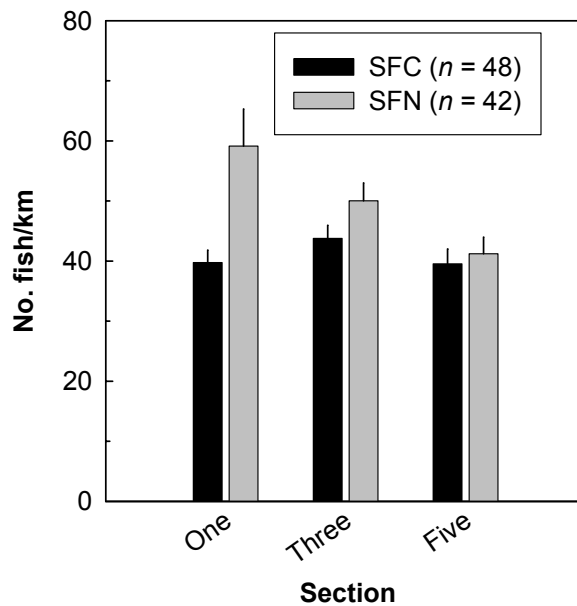


Figure 3.33 Mean catch rates of mountain whitefish stratified by section and habitat type, 2008 Peace River Fish Community Indexing Program (vertical bars represent standard error; see Table 2.2 for definitions of habitat type).

Annual Comparisons

Catch rates of mountain whitefish changed between years in some sections (Figure 3.34). In Section 1, the downward trend recorded in mountain whitefish abundance that commenced after a high of 65.1 fish/km in 2004 stopped at 45.0 fish/km in 2007, and has rebounded slightly to 48.9 fish/km in 2008. The annual increase in abundance of mountain whitefish since 2006 recorded in Section 3 continued in 2008. The average catch rate in 2008 was 46.7 fish/km. After an initial increase in mountain whitefish abundance recorded in Section 5 between 2005 and 2007, there was no substantive increase in average catch rate between 2007 and 2008 (39.5 fish/km versus 40.3 fish/km, respectively).

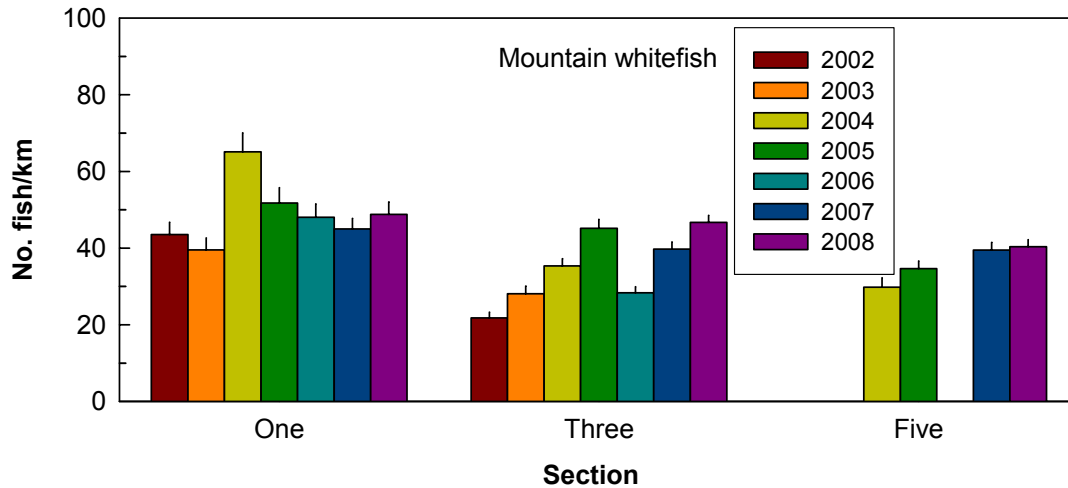


Figure 3.34 Mean catch rates of mountain whitefish during the Peace River Fish Community Indexing Program, 2002 to 2008 (based on combined weighted means and standard errors for SFC and SFN habitats; vertical bars represent standard errors).

3.5.3 Recruitment

Trends in the relative contribution of younger mountain whitefish (\leq Age 3) differed between sections during the period of record (Figure 3.35). Indices indicated that Section 1 contributed fewer younger mountain whitefish than Sections 3 and 5. Section 1 values increased after the low values recorded in 2003 and 2004. In Section 3 values generally stable, with the exception of the large peak in 2005. Annual indices in Section 5 were similar to those in Section 3.

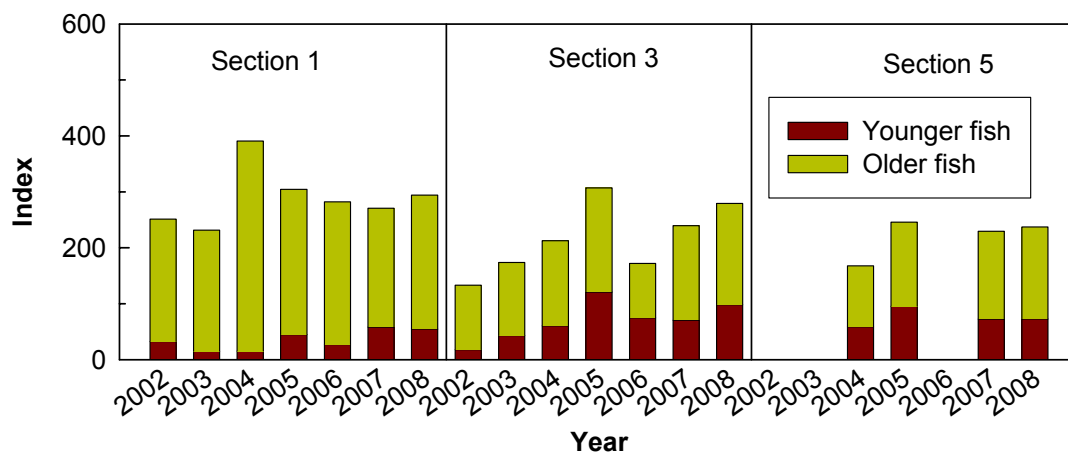


Figure 3.35 Recruitment index of younger and older bull trout in Sections 1, 3, and 5 during the Peace River Fish Community Indexing Program, 2002 to 2008 (see Section 2.2.5 for definition of age groups).

Contributions of older mountain whitefish also differed between sections. Index values were consistently higher in Section 1 than values recorded in either Section 3 or Section 5. In general, annual indices for older mountain whitefish were similar among Sections 3 and 5.

3.6 CONFOUNDING FACTORS

3.6.1 Arctic grayling

Annual results of the indexing program indicated that Arctic grayling catch rates declined during the field sampling program (e.g., Mainstream and Gazey 2008). A summary of Arctic grayling catch rates by fish capture session indicated a consistent trend in the sections where Arctic grayling were relatively abundant (Figure 3.36). Highest values were recorded during the first session, followed by a decline until Session 5, followed by a slight increase in Session 6. The causes of this temporal trend are not known.

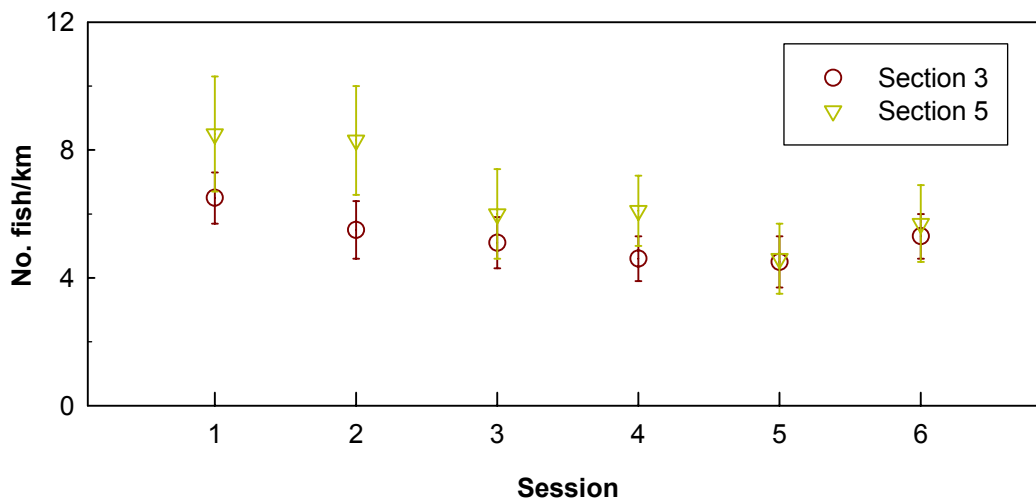


Figure 3.36 Mean catch rates of Arctic grayling in SFC habitat by session during the Peace River Fish Community Indexing Program (based on annual mean catch rates recorded between 2004 and 2008; vertical bars represent 95% confidence intervals).

3.6.2 Bull trout

Sample Population Structure

Adult bull trout (\geq Age 6) were poorly represented in the sample during most years of the program (Figure 3.16). The results were thought to reflect the absence of spawning fish from the indexing sections rather than actual population structure. However, the absence of adult bull trout was not constant (Figure 3.37). In all sections, adult bull represented a small percentage of the catch during each of the first three fish capture sessions. During the latter part of the field program, the percentage of adult fish generally increased in each subsequent session. By Session 6, 21% of the bull trout sample in Section 3 and 8% of the sample in Section 1 consisted of adults. This suggests that post-spawning fish enter some index sections during the latter stages of the field program.

Differences in sample population age structures (Figure 3.16) suggested that the timing of movements by adult fish was not consistent among years. If so, then the assumption of a closed population was violated. This issue would hinder interpretation of biological data, catch rate data, and population estimate data.

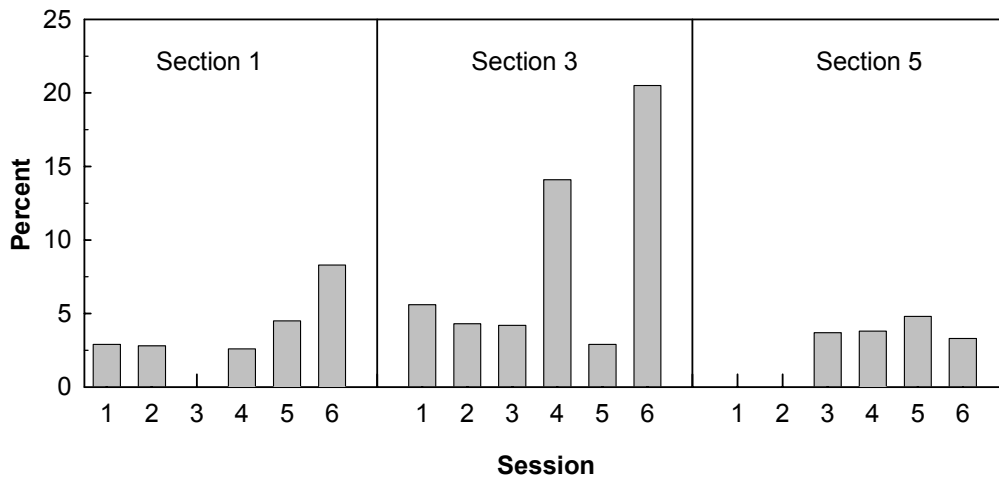


Figure 3.37 Percent of adult fish (\geq Age 7) in the total bull trout catch by session during the Peace River Fish Indexing Program (data for 2002 to 2008 combined).

Catch Rates

A visual assessment of bull trout and mountain whitefish catch rates suggested a positive relationship between the two species in Sections 3 and Sections 5 during most years (Figure 3.38). The only exception was 2002 in Section 3.

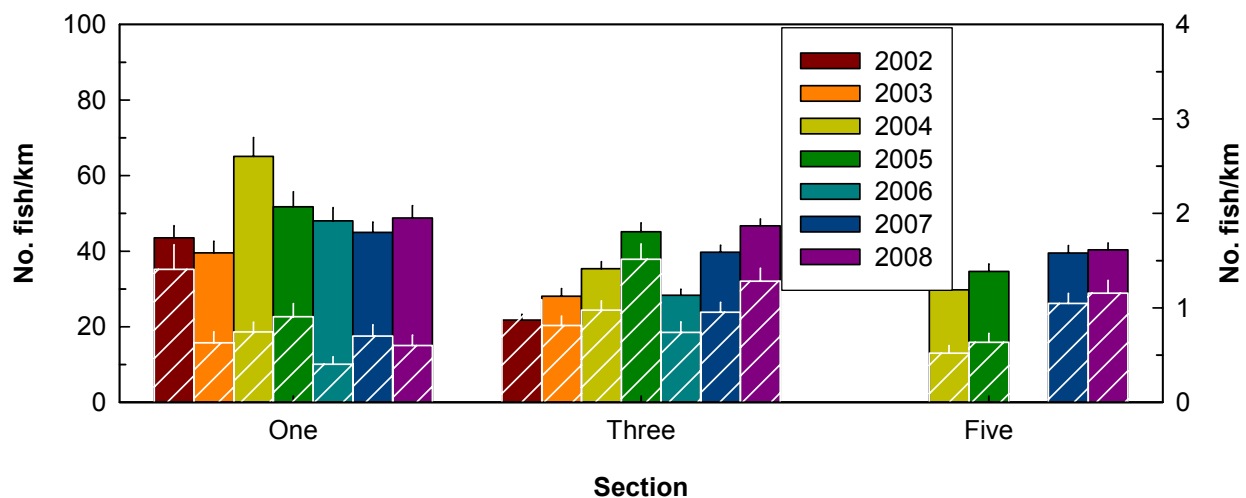


Figure 3.38 Mean catch rates of mountain whitefish (solid bars) and bull trout (hatched bars) during the Peace River Fish Community Indexing Program, 2002 to 2008 (based on combined weighted means and standard errors for SFC and SFN habitats; vertical bars represent standard errors).

The correlation was statistically significant in Section 5 (Pearson correlation 0.960, $p = 0.020$) and Section 3 (Pearson correlation 0.898, $p = 0.049$). If 2002 was removed from the Section 3 data set the correlation was highly significant ($p = 0.008$).

There was no relationship between bull trout and mountain whitefish catch rates in Section 1 (Pearson correlation 0.-0.102, $p = 0.414$). One major difference between Section 1 and the other two sections was the structure of the mountain whitefish populations (Figures 3.26 and 3.27). There were very few young (\leq Age 1) mountain whitefish in Section 1, whereas this group was abundant in Sections 3 and 5. The absence/presence of these fish may influence the bull trout response. It is interesting to note that, in Sections 3 and 5, there was only one year with poor representation by Age 1 mountain whitefish – 2002 in Section 3, the single year that did not follow the bull trout-mountain whitefish catch rate pattern.

3.6.3 Mountain whitefish

Floy Tag Effects

Previous investigations concluded that Floy tagged fish grew at a significantly lower rate than unmarked fish. The present study continued its evaluation by examining tag effects on incremental growth of mountain whitefish.

Growth curves derived from the incremental growth of Floy and PIT marked fish illustrated the divergence in predicted lengths of mountain whitefish (Figure 3.39). Anabolic constants derived from the growth curves of Floy and PIT marked fish also demonstrated the differences in growth (Table 3.10, Figure 3.40). The anabolic constants derived from incremental growth of Floy and PIT marked mountain whitefish were significantly different (the 95% confidence regions do not overlap) for the 2005, 2006, 2007, and 2008 studies. The results clearly document reduced growth of Floy marked fish compared to the PIT marked fish.

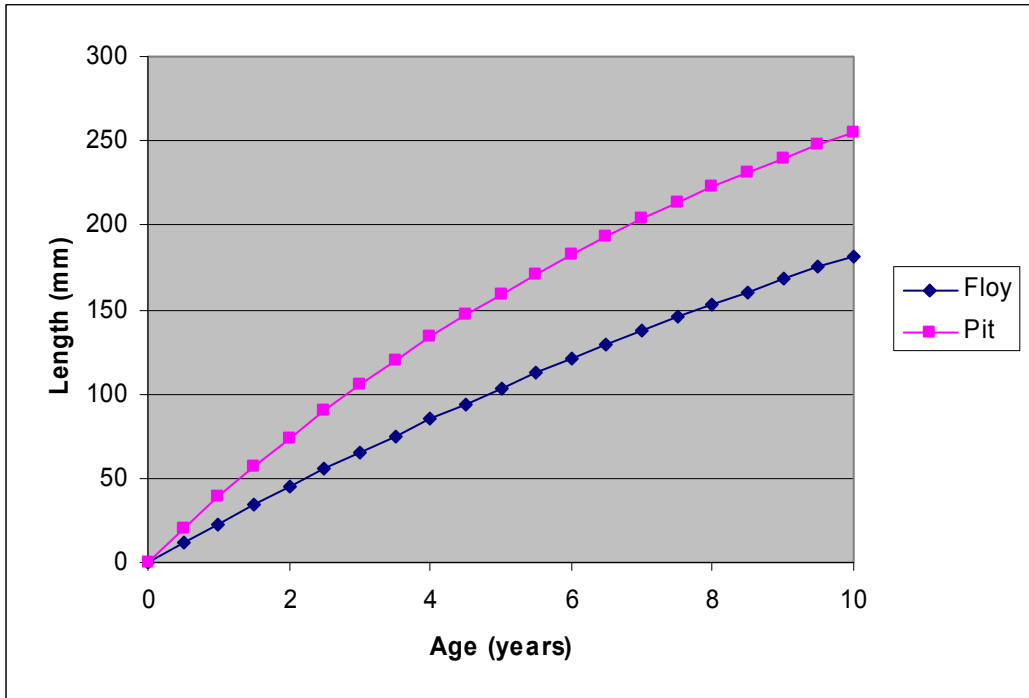


Figure 3.39 Predicted growth of mountain whitefish using a von Bertalanffy growth model with parameters based on length-at-age of Floy and PIT marked fish and the incremental growth obtained from length at release and recapture of tagged fish during the Peace River Fish Community Indexing Program (all available data were used from the period 2001 to 2008).

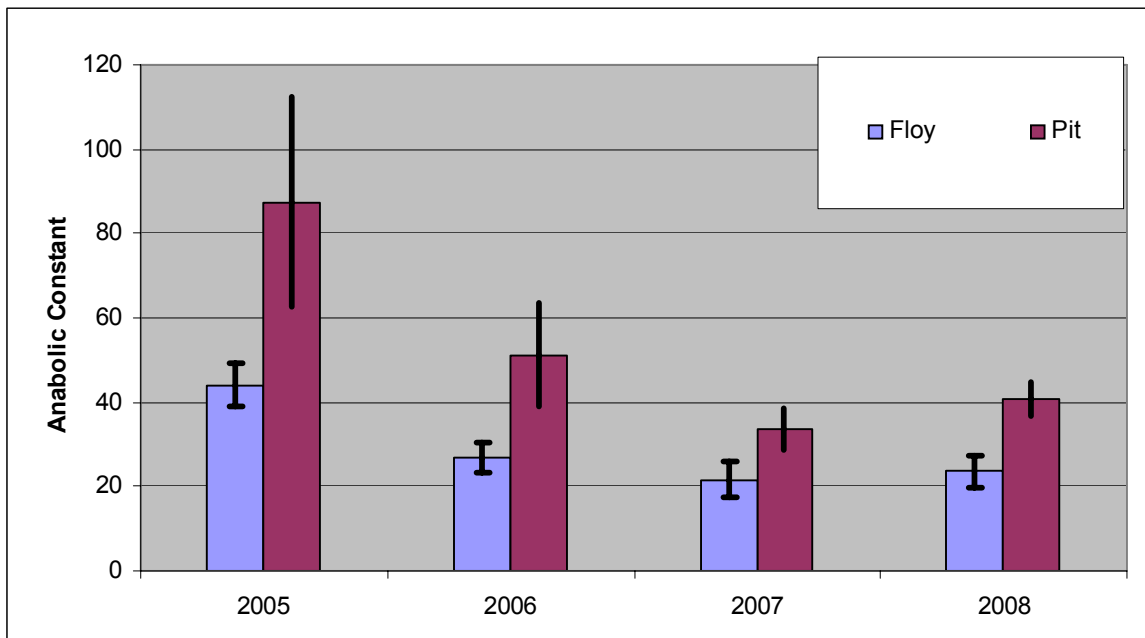


Figure 3.40 Anabolic constant with the associated 95% confidence intervals determined from incremental growth of PIT and Floy marked mountain whitefish during the Peace River Fish Community Indexing Program, 2005 to 2008.

Table 3.10 Parameter estimates using nonlinear regression on von Bertalanffy growth models for sampled mountain whitefish, 2008 Peace River Fish Community Indexing Program.

Parameter	Estimate	Asymptotic	Correlation
		SE	L_{∞}
Length Increment of Floy Marked Fish ($n = 965$)			
K	0.0548	0.0056	-0.946
L_{∞}	431.1	10.9	
Product(K, L_{∞})	23.64	1.88	
Length Increment of PIT Marked Fish ($n = 1585$)			
K	0.1011	0.0063	-0.927
L_{∞}	401.4	5.4	
Product(K, L_{∞})	40.58	2.02	

3.7 POPULATION ESTIMATES

Detailed population estimation results are in Appendix E. A summary of the pertinent results follows.

3.7.1 Mountain whitefish

Mountain whitefish had sufficient number of encounters and recaptures of marked fish to evaluate many factors that may impact or help to explain the behavior of population estimates. Consistent with past studies, fish originally marked prior to 2006 were slightly more susceptible to capture in 2008. However, only in Section 1 could a significant ($P < 0.05$) rate of recapture by year of release be detected. Also consistent with past studies, small fish (< 275 mm) have been under-represented in the recapture record; however, no statistically significant size differences of unmarked fish in comparison to the recapture of marked fish could be detected. While growth over the study period was statistically significant, the growth increment was small (< 1.8 mm over the study period). Mountain whitefish exhibited little movement between river sections and within a section most fish were recaptured at the same site-of-release. Nevertheless, more movement was observed within Sections 3 and 5 than was observed in past years (with the exception of 2004).

The evaluation of encounter history of individual fish through program MARK resulted in more inferential weight to be placed on a homogeneous as compared to a heterogeneous capture probability. The Jolly-Seber open population model survival estimates were not significantly different than 1.0 for all sections. Births (fish entering the population) were statistically significant for Sections 1 and 3.

The sequential posterior probability plots through the application of the Bayes sequential model for a closed population revealed that none of the sections were consistent with a closed population. However in Section 1, only the first two sequences (two days in the second session) were substantially different and

account for less than 5% of the recovered marks. Similarly, the sequential posteriors in Sections 3 and 5 were also heavily influenced by the second session that accounted for about 10% of the recoveries. However, unlike Section 1, the capture probabilities (assuming a closed population, i.e., no immigration of unmarked fish) continue to increase through the remainder of the study.

A summary of the 2008 population estimates for the Bayes sequential model are given in Table 3.11. Bar plots of the population estimates for the 2002 to 2008 studies with sections common to 2007 are provided in Figure 3.41. Suspect estimates (immigration of fish or changes in catchability over the project operating period) are labeled in the figure. In 2004, very low water likely concentrated the fish in locations that could be sampled and elevated the population estimates.

Table 3.11 Population estimates by section for mountain whitefish, 2008 Peace River Fish Community Indexing Program.

Section	Bayesian Mean	MLE	95% Highest Probability Density		Standard Deviation	CV (%)
			Low	High		
One	13,884	13,720	11,900	15,970	1,039	7.5
Three	13,125	13,050	11,770	14,520	699	5.3
Five	11,053	10,930	9,530	12,650	796	7.2
Total	38,062		35,153	40,971	1,484	3.9

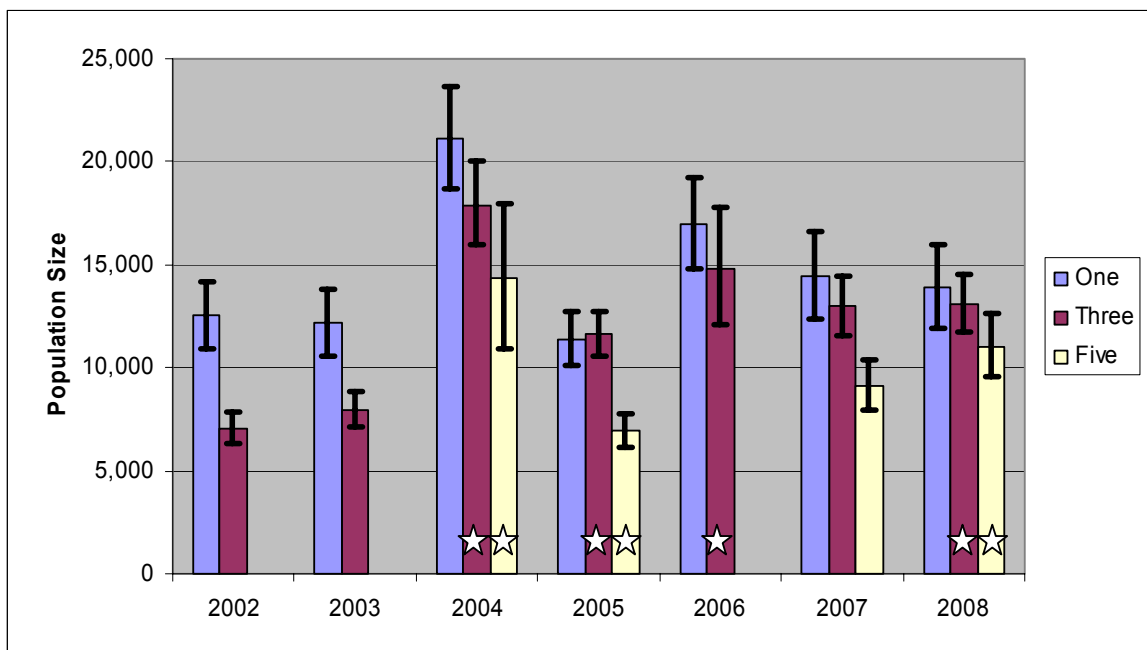


Figure 3.41 Mountain whitefish population estimates during the Peace River Fish Community Indexing Program, 2002 to 2008 (vertical bars represent 95% confidence intervals; star indicates a suspect population estimate).

3.7.2 Arctic grayling

Given the sparse encounters and mark recoveries of Arctic grayling, length histograms were not conducted. No Arctic grayling were recaptured in Section 1; thus, no population estimates were generated for the section. A summary of the 2008 Arctic grayling population estimates for the Bayes sequential model are given in Table 3.12. Because of sparse recoveries, the posterior distribution for Section 3 is highly skewed and mean estimates are unreliable. There is a 0.95 probability that the population size is at least 490 Arctic grayling in Section 3. A bar plot of the population estimates for the 2004, 2007, and 2008 studies with sections common to 2008 are provided in Figure 3.42.

Table 3.12 Population estimate in Sections 3 and 5 for Arctic grayling, 2008 Peace River Fish Community Indexing Program.

Section	Bayesian Mean	MLE	95% Highest Probability Density		Standard Deviation	CV (%)
			Low	High		
Three	2,713	740	200	8,490	2,488	91.7
Five	312	231	123	582	131	42.1
Total	3,025	1090	430	8,690	2,492	82.4

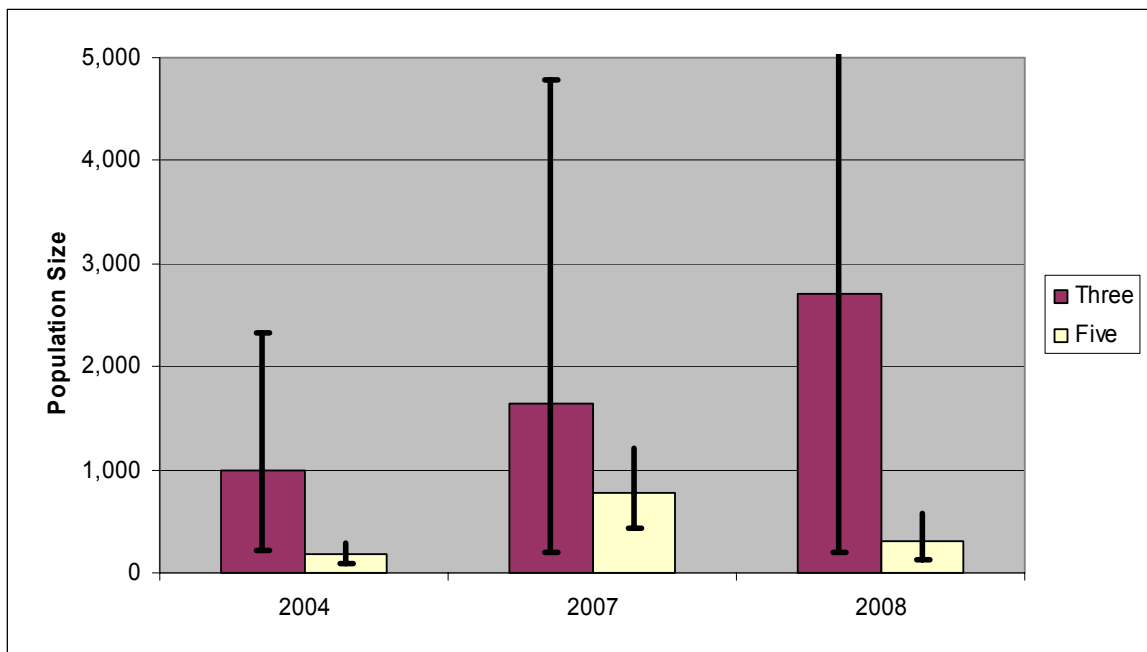


Figure 3.42 Arctic grayling population estimates by section for 2004, 2007, and 2008, Peace River Fish Community Indexing Program (vertical bars represent 95% confidence intervals).

3.7.3 Bull trout

Given the sparse encounters and mark recoveries of bull trout, length histograms were not conducted. A summary of the 2008 population estimates for the Bayes sequential model are given in Table 3.13. Because of sparse recoveries, the posterior distribution for Section 1 is highly skewed and mean estimates are unreliable. There is a 0.95 probability that the population size is at least 52 bull trout in Section 1. This is the first year in which population size information has been obtained for Sections 1 and 5. A bar plot of the population estimates for the 2002 to 2008 studies with sections common to 2008 is provided in Figure 3.43.

Table 3.13 Population estimate in Sections 3 and 5 for bull trout, 2008 Peace River Fish Community Indexing Program.

Section	Bayesian Mean	MLE	95% Highest Probability Density		Standard Deviation	CV (%)
			Low	High		
One	386	78	20	1,466	487	126.0
Three	198	180	128	284	42	21.0
Five	196	136	68	392	100	51.2
Total	780	484	322	1,022	498	63.9

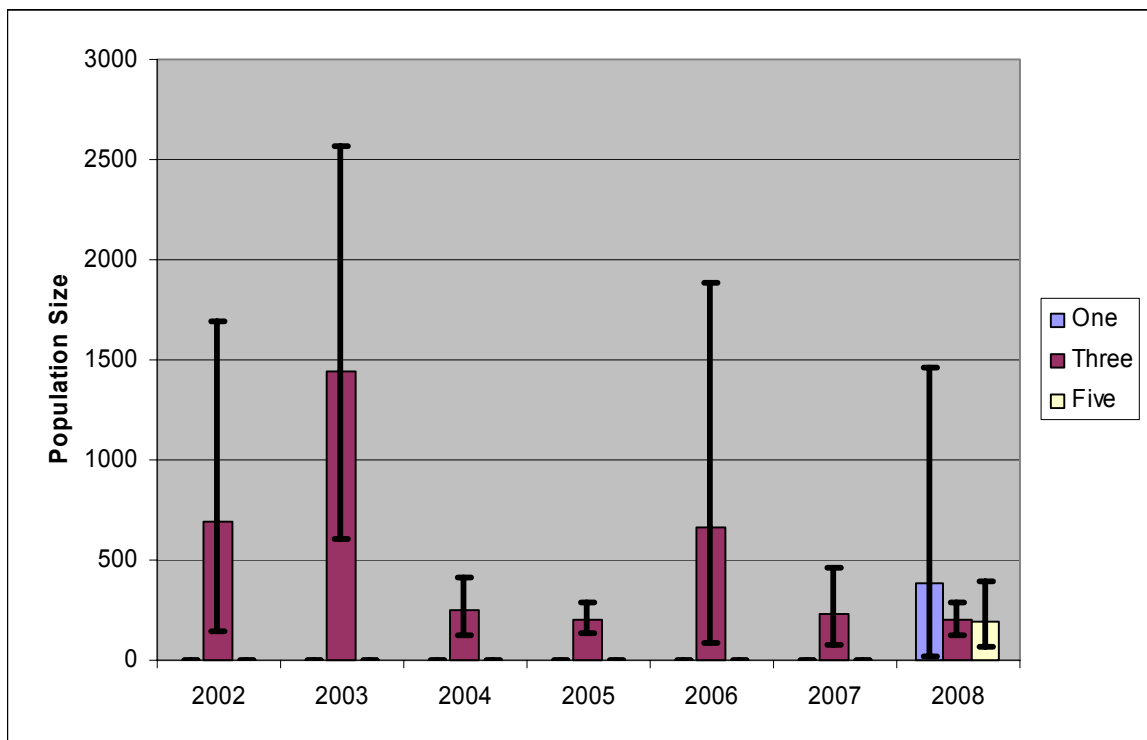


Figure 3.43 Bull trout population estimates in Section 3 during the Peace River Fish Community Indexing Program, 2002 to 2008 (vertical bars represent 95% confidence intervals).

3.8 CATCHABILITY

Only mountain whitefish had a sufficient number of recaptures for the computation of catchability based on population estimates. The catchability coefficients and associated population estimates, standard deviation estimates and effort (Equations 6 to 8) by section are listed in Tables 3.14 and 3.15 using effort measured in kilometers traveled or the hours of electrofishing to collect the samples. Figure 3.44 plots the catchability coefficients using both effort measures and the associated 95% confidence intervals. Note that catchabilities are consistent for all sections in 2008 and are consistent across years and sections when the population estimates were deemed to be reliable in previous studies.

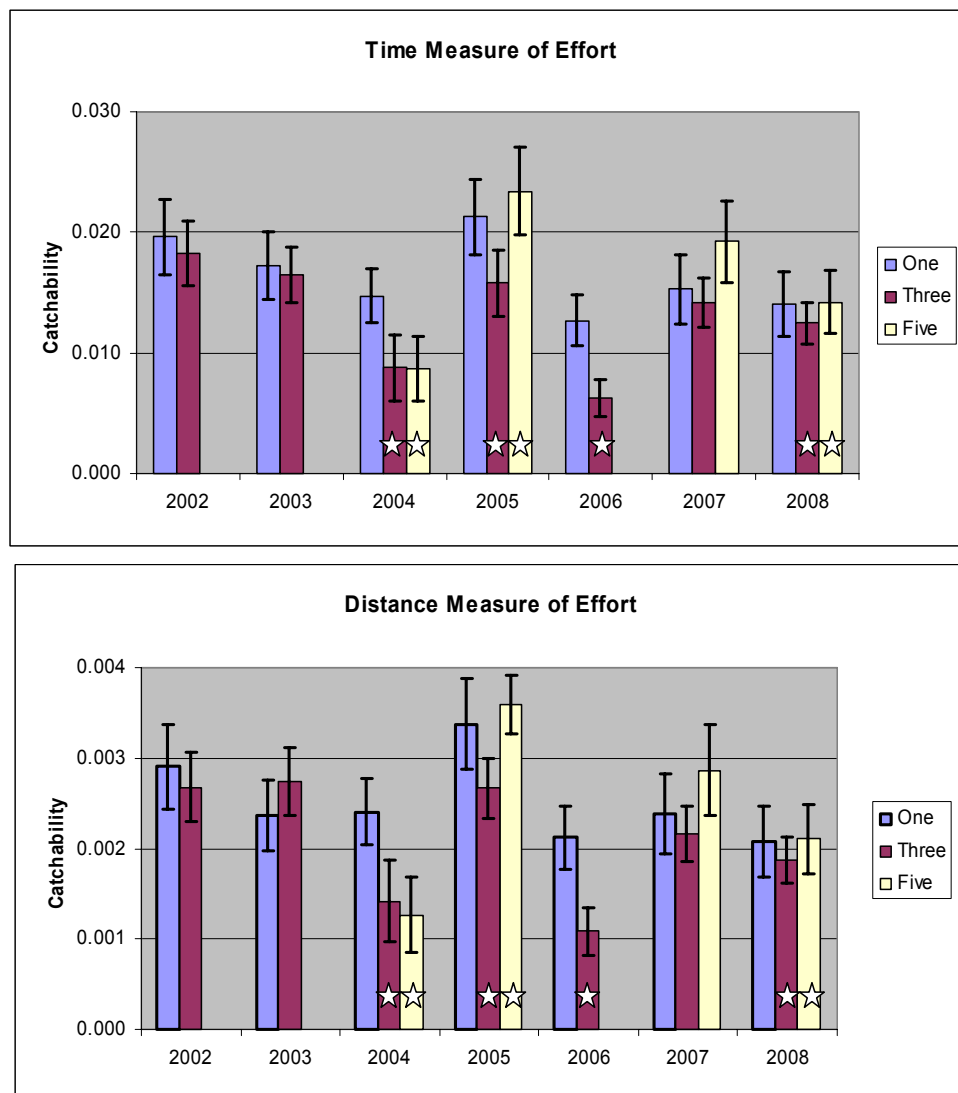


Figure 3.44 Catchability using time (hours – top graph) and distance (km – bottom graph) by section for mountain whitefish during the Peace River Fish Community Indexing Program, 2002 to 2008 (vertical bars represent 95% CI; star indicates a suspect population estimate).

Table 3.14 Catchability of mountain whitefish by section (effort in kilometres) during the Peace River Fish Community Indexing Program, 2002 to 2008.

Statistic	Section					Total
	One	Two	Three	Four	Five	
2002 Study						
Sample	2845	2611	2363	2105		9924
Effort	78.13	90.90	124.85	119.34		413.22
Abundance (N)	12,534	10,587	7,066	6,045		36,232
SD(1/N)	5.614E-06	6.493E-06	8.794E-06	1.024E-05		3.998E-06
Catchability (q)	2.905E-03	2.713E-03	2.679E-03	2.918E-03		2.804E-03
SD(q)	2.044E-04	1.865E-04	1.665E-04	1.805E-04		9.602E-05
CV(q)	7.0%	6.9%	6.2%	6.2%		3.4%
2003 Study						
Sample	2145	1896	2546	1883		8470
Effort	74.51	86.98	116.80	112.24		390.53
Abundance (N)	12,165	8,911	7,955	7,252		36,283
SD(1/N)	5.876E-06	7.591E-06	7.388E-06	1.039E-05		3.989E-06
Catchability (q)	2.367E-03	2.446E-03	2.740E-03	2.313E-03		2.467E-03
SD(q)	1.692E-04	1.655E-04	1.610E-04	1.743E-04		8.652E-05
CV(q)	7.1%	6.8%	5.9%	7.5%		3.5%
2004 Study						
Sample	3514		2972		1549	8035
Effort	69.16		116.80		85.18	271.13
Abundance (N)	21,121		17,912		14,409	53,442
SD(1/N)	2.959E-06		7.388E-06		8.969E-06	3.997E-06
Catchability (q)	2.406E-03		1.421E-03		1.262E-03	1.696E-03
SD(q)	1.504E-04		1.880E-04		1.631E-04	1.184E-04
CV(q)	6.2%		13.2%		12.9%	7.0%
2005 Study						
Sample	2777		3624		2132	8533
Effort	72.34		116.80		85.18	274.32
Abundance (N)	11,370		11,628		6,969	29,967
SD(1/N)	5.496E-06		4.538E-06		9.47E-06	3.952E-06
Catchability (q)	3.376E-03		2.668E-03		3.592E-03	3.212E-03
SD(q)	2.110E-04		1.408E-04		2.371E-04	1.229E-04
CV(q)	6.2%		5.3%		6.6%	3.8%
2006 Study						
Sample	2532	2120	1887			
Effort	70.39	77.52	117.42			
Abundance (N)	16,973	10,274	14,846			
SD(1/N)	4.112E-06	6.334E-06	6.939E-06			
Catchability (q)	2.119E-03	2.662E-03	1.082E-03			
SD(q)	1.479E-04	1.732E-04	1.115E-04			
CV(q)	7.0%	6.5%	10.3%			
2007 Study						
Sample	2565		3292		2218	8075
Effort	74.51		117.22		84.80	276.53
Abundance (N)	14,436		12,985		9,120	36,541
SD(1/N)	5.518E-06		4.663E-06		8.049E-06	3.605E-06
Catchability (q)	2.385E-03		2.163E-03		2.868E-03	2.472E-03
SD(q)	1.900E-04		1.310E-04		2.105E-04	1.053E-04
CV(q)	8.0%		6.1%		7.3%	4.3%
2008 Study						
Sample	2156		2905		1978	7,039
Effort	74.51		118.03		84.98	277.52
Abundance (N)	13,884		13,125		11,053	38,062
SD(1/N)	5.713E-06		4.410E-06		6.983E-06	3.348E-06
Catchability (q)	2.084E-03		1.875E-03		2.106E-03	2.022E-03
SD(q)	1.653E-04		1.085E-04		1.625E-04	8.491E-05
CV(q)	7.9%		5.8%		7.7%	4.2%

Table 3.15 Catchability of mountain whitefish by section (effort in hours) during the Peace River Fish Community Indexing Program, 2002 to 2008.

Statistic	Section					Total
	One	Two	Three	Four	Five	
2002 Study						
Sample	2845	2611	2363	2105		9924
Effort	11.58	14.39	18.31	17.59		61.86
Abundance (N)	12,534	10,587	7,066	6,045		36,232
SD(1/N)	5.614E-06	6.493E-06	8.794E-06	1.024E-05		3.998E-06
Catchability (q)	1.960E-02	1.714E-02	1.827E-02	1.980E-02		1.870E-02
SD(q)	1.379E-03	1.178E-03	1.135E-03	1.225E-03		6.414E-04
CV(q)	7.0%	6.9%	6.2%	6.2%		3.4%
2003 Study						
Sample	2145	1896	2546	1883		8470
Effort	12.29	15.31	19.49	18.67		65.76
Abundance (N)	12,165	8,911	7,955	7,252		36,283
SD(1/N)	5.876E-06	7.591E-06	7.388E-06	1.039E-05		3.989E-06
Catchability (q)	1.722E-02	1.652E-02	1.642E-02	1.659E-02		1.669E-02
SD(q)	1.231E-03	1.118E-03	9.651E-04	1.249E-03		5.800E-04
CV(q)	7.1%	6.8%	5.9%	7.5%		3.5%
2004 Study						
Sample	3514		2972		1549	8035
Effort	11.29		18.87		12.35	42.51
Abundance (N)	21,121		17,912		14,409	53,442
SD(1/N)	2.959E-06		7.388E-06		8.969E-06	6.923E-06
Catchability (q)	1.473E-02		8.791E-03		8.708E-03	1.074E-02
SD(q)	9.208E-04		1.163E-03		1.125E-03	1.308E-03
CV(q)	6.2%		13.2%		12.9%	12.2%
2005 Study						
Sample	2777		3624		2132	8533
Effort	11.49		19.70		13.06	44.26
Abundance (N)	11,370		11,628		6,969	29,967
SD(1/N)	5.496E-06		4.538E-06		9.47E-06	3.952E-06
Catchability (q)	2.126E-02		1.582E-02		2.342E-02	2.016E-02
SD(q)	1.328E-03		8.347E-04		1.546E-03	7.620E-04
CV(q)	6.2%		5.3%		6.6%	3.8%
2006 Study						
Sample	2532	2120	1887			
Effort	11.75	13.36	20.27			
Abundance (N)	16,973	10,274	14,846			
SD(1/N)	4.112E-06	6.334E-06	6.939E-06			
Catchability (q)	1.270E-02	1.545E-02	6.270E-03			
SD(q)	8.864E-04	1.005E-03	6.459E-04			
CV(q)	7.0%	6.5%	10.3%			
2007 Study						
Sample	2565		3292		2218	8075
Effort	11.63		17.89		12.65	42.17
Abundance (N)	14,436		12,985		9,120	36,541
SD(1/N)	5.518E-06		4.663E-06		8.049E-06	3.605E-06
Catchability (q)	1.528E-02		1.417E-02		1.923E-02	1.623E-02
SD(q)	1.217E-03		8.579E-04		1.411E-03	6.904E-04
CV(q)	8.0%		6.1%		7.3%	4.3%
2008 Study						
Sample	2156		2905		1978	7,039
Effort	11.04		17.75		12.59	41.39
Abundance (N)	13,884		13,125		11,053	38,062
SD(1/N)	5.713E-06		4.410E-06		6.983E-06	3.348E-06
Catchability (q)	1.406E-02		1.247E-02		1.422E-02	1.358E-02
SD(q)	1.116E-03		7.215E-04		1.097E-03	5.694E-04
CV(q)	7.9%		5.8%		7.7%	4.2%

Catchability for mountain whitefish generated during the present study (excluding the invalidated population estimate for Section 3) was consistent among years and sections (Figure 3.45). The catchability estimate using distance as the measure of effort was 0.0026 ± 0.0006 (95% confidence intervals).

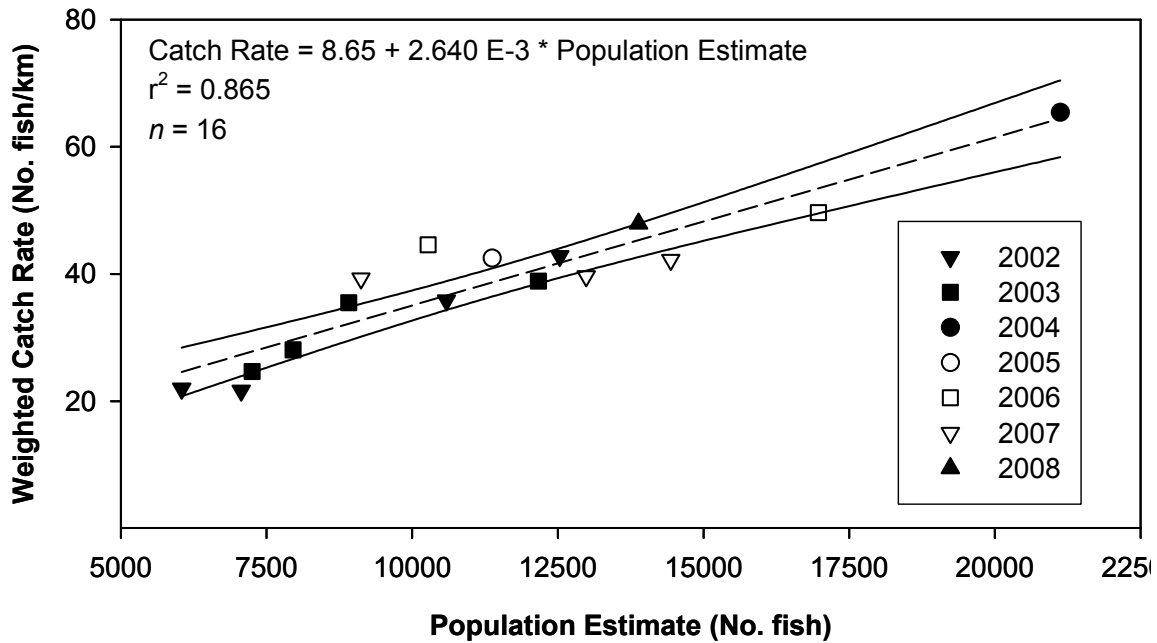


Figure 3.45 Relationship between population estimate and weighted catch rate of mountain whitefish during the Peace River Fish Community Indexing Program, 2002 to 2008 (solid lines represent 95% confidence intervals).

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4.0 DISCUSSION

4.1 SAMPLING CONDITIONS

Sampling conditions recorded during the 2008 field program were within the range documented during previous studies and were considered good. Discharge from the PCN Dam, which was 1200 m³/s at the beginning of the program gradually declined to 900 m³/s by the end of the program. Within this general trend, hourly discharge fluctuated widely during each 24 h period.

Water clarity was high in Section 1 during the entire program (> 200 cm). Water clarity was lower in Sections 3 and 5 at the start of the program, but quickly increased to above 150 cm. P&E (2002) indicated that water clarity of 50 cm was the threshold at which there was a negative effect on capture efficiency; therefore, conditions in 2008 were good.

Water temperatures in 2008, which ranged from 10.1°C to 13.6°C, were higher than the historical average recorded during previous studies. The higher temperatures likely did not adversely affect the health of captured fish, but temperatures were well above the threshold for initiation of mountain whitefish spawning (7.5°C).

4.2 GENERAL CHARACTERISTICS OF THE FISH COMMUNITY

In total, 14,257 fish representing 14 species were recorded in 2008. Mountain whitefish were very numerous, but Arctic grayling and bull trout were not abundant. The number of fish and species recorded, as well as the results for the three target species were similar to findings of previous studies.

Of note was the higher than expected numbers of walleye and northern pike in the sample. In general, both species were scarce during previous studies.

4.3 ARCTIC GRAYLING

Biological Characteristics

In 2008, 213 Arctic grayling were sampled for biological characteristics; however, the scarcity of fish in Section 1 ($n = 4$) limited the analyses to Sections 3 and 5. Similar to results of previous studies, Age 0 fish were not recorded in 2008.

Fish from Sections 3 and 5 exhibited similar age and length distributions. Samples in each section were dominated by younger fish. The primary spatial difference was the strong representation by Age 2 fish in Section 3 compared to Section 5. There were no measurable differences between the two sections in terms of length-at-age, body condition-at-age, growth, and apparent annual mortality. The results were generally consistent with previous studies.

There continue to be annual shifts in length and age distributions of the Arctic grayling sample populations, which are usually related to strong age classes in a particular year. There also has been an increase in the numerical importance of larger, older fish since 2005. This shift cannot be entirely explained by recruitment of younger fish into the sample populations. Alternate explanations could include annual differences in recreational angling harvest and dispersal from rearing tributaries (Moberly River and Halfway River).

Several parameters (i.e., growth curves, anabolic constants, length-at-age, body condition-at-age) all indicated a general decline in Arctic grayling population health over time. The reasons for the apparent decline are not known. Possible explanations include adverse effects caused by the indexing program, suboptimal conditions in rearing tributaries and the Peace River, and density-dependent effects.

Catch Rate

Arctic grayling catch rates in 2008 were low (< 3.0 fish/km) and they differed by section and habitat. Catch rates were very low in Section 1, intermediate in Section 3, and highest in Section 5. Arctic grayling catch rates were higher in SFC habitat compared to SFN habitat. The results for 2008 were consistent with results of previous studies.

Arctic grayling catch rates exhibited a sharp decline between 2007 and 2008. The biological data did not show any large scale shift in recruitment, population structure, or health that could explain the annual differences in catch rates. Therefore, it is likely that factors not monitored by the program were responsible (e.g., angler harvest or recruitment from tributaries). Despite the large drop in Arctic grayling abundance, the 2008 catch rates were similar to pre-2007 levels.

Recruitment

The contribution of younger Arctic grayling to the catch has been extremely low in Section 1 for the duration of the program. The relative contribution of younger fish has remained generally constant since 2003 in Section 3; however, it has been more variable in Section 5. The high levels recorded in 2004 and 2005 have dropped to values comparable to those in Section 3 during 2007 and 2008. The results suggest that there may be different sources of Arctic grayling recruitment into Section 3 and Section 5. These likely are the Halfway River (Section 3) and the Moberly River (Section 5).

4.4 BULL TROUT

Biological Characteristics

In total, 170 bull trout were sampled for biological characteristics. Length and age distributions of bull trout were similar among sections. Fish younger than Age 4 dominated in all sections and bull trout older than Age 6 (adults) were not well represented. Section 3 was the only area where this group was encountered in any number. As has been found during previous studies, fish younger than Age 2 were extremely scarce in all sections. Bull trout population health, in terms of growth and body condition, is similar among sections. Fish grow very quickly and exhibit good body condition.

Age and length distributions of the combined sample (Sections 1, 3, and 5) remained stable across years. Age 0 and Age 1 fish were largely absent, which likely reflected use of tributaries for early rearing by this population (McPhail 2007) or low capture efficiency of smaller fish by the boat electrofisher. In all years age distributions were dominated by subadults, while adult fish were poorly represented. An important caveat should be placed on these results. The absence of adult fish from the index sections was likely caused by use of tributaries for spawning during the study period. As such, the results do not reflect the actual age structure of the Peace River bull trout population. Similarly, the apparent annual mortality of 45% for this population should be interpreted with caution because of the scarcity of adult fish.

Catch Rate

Bull trout catch rates were very low in all sections (< 1.5 fish/km) and there was no strong spatial trend in bull trout abundance. In general, catch rates were lowest in Section 5, intermediate in Section 1, and highest in Section 3. Bull trout catch rates also tended to be highest in SFC habitat compared to SFN habitat. These results were consistent with findings of previous studies. There has been no large change in Section 1 bull trout abundance for the duration of the indexing program. However, bull trout abundance has increased in Section 3 and in Section 5.

Recruitment

The number of younger bull trout contributes only a small portion to the annual catch. As stated earlier this was expected because young bull trout do not rear in the Peace River. Although very low, the index recruitment of younger fish increased after 2004 in Section 3 and Section 5, which may help explain the increased abundance of bull trout recorded during the indexing program.

4.5 MOUNTAIN WHITEFISH

Biological Characteristics

In total, 7775 mountain whitefish fish were available for analyses; 2300 from Section 1, 3361 from Section 3, and 2114 from Section 5. There were spatial differences in length and age distributions of mountain whitefish in 2008, which was consistent with findings during previous investigations. Fish in Section 1 exhibited truncated age and length distributions caused by the preponderance of Age 4 to Age 6 fish. Younger fish (Age 1) and older fish (> Age 6) were largely absent. In contrast, mountain whitefish in Sections 3 and 5 exhibited multi-modal length distributions that represented a wide range of ages.

Similar to findings during previous investigations there were spatial differences in mountain whitefish growth and body condition. Older age-classes in Section 1 tended to have lower mean lengths compared to fish in Sections 3 and 5. Body condition of younger fish tended to be higher in Section 1 compared to Sections 3 and 5. The opposite was the case for older fish. The annual mortality of mountain whitefish also differed between sections. The apparent annual mortality was highest in Section 1, intermediate in Section 3, and lowest in Section 5.

The reasons for spatial patterns of mountain whitefish length-at-age and body condition are not known. Potential reasons include spatial differences in water temperature and/or reproductive strategy. Water temperature may influence the timing of gonad development of sexually mature fish. Mountain whitefish in Section 1 may represent a component of the study area population that invests a larger proportion of

annual reserve to reproduction rather than growth. This latter hypothesis may help explain the unique age distribution and length-at-age characteristics of mountain whitefish in Section 1.

There continue to be slight annual differences in mountain whitefish age and length distributions based on the strengths of younger age classes; however, the spatial differences remain constant. In terms of population health, some parameters (i.e., growth curves, anabolic constants, and body condition-at-age) indicated no temporal change in population health. Starting in 2003, annual mean length-at-age estimates of some age classes suggested a decline in sample population health in all three sections. The results for 2008 suggested that the downward trend has stopped or been reversed.

Potential causes of the apparent trends in mountain whitefish biological characteristics include changes in environmental conditions and population density. For example, 2004 was a year with very low flow and the highest recorded fish densities. Other causes include sampling effects related to the program. Floy tags caused reduced growth and body condition of mountain whitefish (Mainstream and Gazey 2007). Although the use of Floy tags was stopped in 2005, fish marked with Floy tags still occur in the study area (fish with tags and fish that have lost tags); therefore, adverse Floy tag effects will continue until these fish leave the population.

Catch Rates

As has been documented during previous studies, mountain whitefish continue to be very abundant in Sections 1, 3, and 5 (> 35 fish/km) and catch rates differed by section and habitat. Catch rates were lowest in Section 5, intermediate in Section 3, and highest in Section 1. Mountain whitefish catch rates were higher in SFN habitat compared to SFC habitat.

Catch rates of mountain whitefish changed between years in some sections. In Section 1, the downward trend recorded in mountain whitefish abundance that commenced in 2004 stopped in 2007, and has rebounded slightly in 2008. The annual increase in abundance of mountain whitefish in Section 3 has continued in 2008. After the initial increase in abundance recorded in Section 5 between 2005 and 2007, catch rates did change for 2008.

Recruitment

The relative contribution of younger mountain whitefish differed between sections during the period of record. Recruitment indices were much lower in Section 1 compared to Sections 3 and 5. Despite there being spatial differences, contributions of younger fish to the samples have remained generally stable during the indexing program.

4.6 CONFOUNDING FACTORS

4.6.1 Variable Catch Rates

Arctic grayling catch rates declined during the field program. The cause(s) of this temporal trend are not known, but there are several possible explanations. The fish capture method may harm fish or cause behavioural changes (i.e., increased avoidance). Alternatively, Arctic grayling may migrate out of the indexing sections during the study period. The evidence suggests either unstable catchability, open populations, or both. Regardless of the mechanism this issue would hinder development of reliable catch rates and population estimates for this target species.

Adult bull trout were poorly represented in the sample during most years of the indexing program. The results likely reflect the absence of spawning fish rather than the actual population structure. However, the scarcity of adult bull trout was not constant during the entire field program. The percentage of adult bull trout increased and was generally highest by the last sample session. This issue would hinder development of reliable population estimates for this target species because the sample population is not closed.

A plot of bull trout and mountain whitefish annual catch rates indicated a strong correlation in some sections. At present it is not known whether this apparent relationship is simply a spurious correlation or evidence of a causal mechanism (e.g., predator-prey relationship).

4.6.2 Floy Tag Effects

Previous investigations concluded that Floy tagged fish grew at a significantly lower rate than unmarked fish; Floy tagged fish had a lower body condition. The present study also documented Floy tag effects on mountain whitefish. Sample sizes for the other two species were too small to evaluate this question; however, it is not unlikely that Floy tags would cause detrimental effects on Arctic grayling and bull trout health. The detrimental effects of Floy tags on fish health will be continual until marked fish are removed from the sample populations.

4.7 POPULATION ESTIMATES

4.7.1 Evaluation of Assumptions

The factors that affect the population estimates can be evaluated through an assessment of assumptions required for the closed sequential stratified population model.

1. The population is closed, so the population size does not change over the period of the experiment.

Only very few mountain whitefish were recaptured in river sections other than the section of release (1%, approximately). The population estimation model accounts for fish that move; however, the movement is assumed to be fully determined by the history of recaptured marks. While few Arctic grayling and bull trout were recaptured, none was observed to move to a different river section. For mountain whitefish, growth over the study period was small; therefore, any growth recruitment (fish becoming larger than 250 mm during the study) was minimal. Mortality was not expected to be an issue because of the short duration of the study and was further supported by the Jolly-Seber (open population) estimates of survival not significantly different than 1.0.

2. All fish in a stratum (day and section), whether marked or unmarked, have the same probability of being caught.

The study area was stratified into three river sections to account for any differences from marks applied, population size, or spatial catchability. Similarly, the day strata accounted for new marks applied through the study. As found in previous studies, there were small but significant differences in capture probabilities by tag type and year of tag application for mountain whitefish. However, empirical evaluations of encounter history for mountain whitefish, using additional parameters to represent heterogeneous effects, selected constant recapture probability as the more likely model for all sections.

For mountain whitefish, sequential posterior probability plots of population size indicate either unmarked immigrants into the population or temporal changes in catchability (the factors are confounded). Based on the established senescence of mountain whitefish (see assumption 1, above) and no temporal trends in the abundance indices (Appendix D1) we believe the mechanism to be changes in catchability. In Section 1, the second session capture rate (the first session with recaptured marks) was identified as being substantially different than the other sessions yet accounted for less than 5% of the recaptures (i.e., little influence on the final population estimate). The remaining sequences in Section 1 exhibited consistent capture probabilities. Therefore, we have accepted the mountain whitefish estimate for Section 1. While similar dynamics occur in Sections 3 and 5, the changes in capture probability were more acute. Therefore, the population estimates for Sections 3 and 5 were categorized as suspect; however, as discussed below, population estimates are often robust to changes in catchability when marked and unmarked fish are affected equally. Mark-recapture closed population models can deal with temporal changes in catchability (e.g., White 2006); however, to the best of our knowledge software is not readily available to deal with unmarked releases which are common in the mountain whitefish mark-recapture

data. Moreover, invalidation of the assumption that the CPUE is directly related to abundance requires population estimates under the null hypothesis of constant catchability.

3. Fish do not lose their marks over the period of the study.

Each captured fish was examined for the presence of a scar. A total of three mountain whitefish taken in 2008 had evidence of a scar. No scarred Arctic grayling or bull trout were observed. The impact on the 2008 closed population estimation model from lost marks should be small.

4. All marked fish are reported on recovery.

Only fish brought on board were included in the number of fish examined for a mark; thus, it is unlikely that a marked fish would escape detection.

4.7.2 Reliability of Estimates

For mountain whitefish in Sections 3 and 5, the constant catchability assumption appears deficient and we view the population estimates as deficient. However, Gazey and Staley (1986) showed that if immigration was the only assumption violation (e.g., no substantial mortality or emigration) then the subsequent population estimates of the monotonically increasing population provide a mean estimate weighted by mark application and sampling intensity over the period of the study. Similarly, Seber (1982) demonstrated that the mean estimate is often accurate for closed populations with time varying capture probabilities (i.e., temporal change in catchability). . In other words, the population estimates for Sections 3 and 5 are likely accurate even though deficiencies can be identified.

Because there is little movement of fish between the river sections, sampling intensity can be isolated to a section. Figure 4.1 plots the precision as a function of electrofishing effort (hours) for mountain whitefish in Section 1. For reference, the 2008 effort expended is also plotted. The plots indicate that an effort reduction in Section 1 may risk substantive loss of power. Future project planning should focus on the addition or removal of sections rather than amend the sampling intensity of a section. For Arctic grayling and bull trout, there was not sufficient data to generate a reliable power curve.

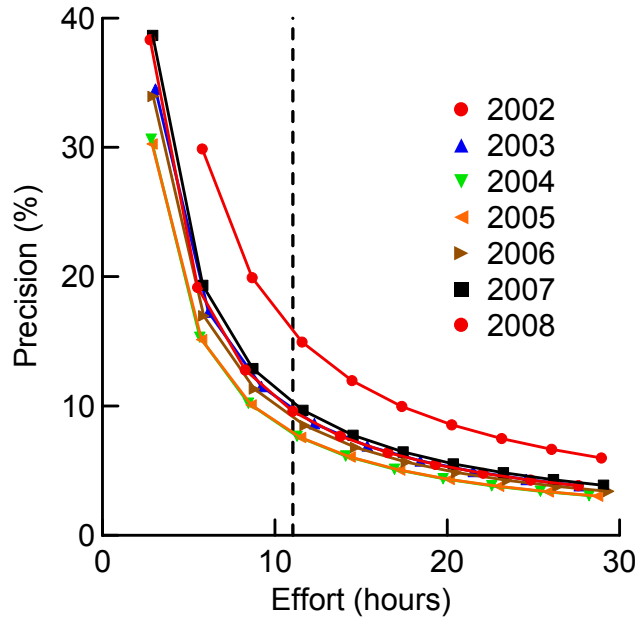


Figure 4.1 Precision (percentage of the mean) of the population estimate of Section 1 at various effort levels for mountain whitefish by year during the Peace River Fish Community Indexing Program, 2002 to 2008.

For Arctic grayling and bull trout, population estimates are available, but the overall precision is poor (CV = 82.4% and 63.9%, respectively). There was not sufficient data to forecast effort levels needed for reliable population estimates for either species.

4.8 CATCHABILITY

Catchability coefficients were calculated under the assumptions of a closed population and that abundance indices are proportional to the population size. If these assumptions are true then the coefficients should remain constant over study-years and river sections.

The catchability estimate for mountain whitefish remained robust despite a range of conditions encountered among sample years and sections. As such catch rate can be used as an index of absolute abundance. Sixteen data points are now available to quantify the relationship. The catchability estimate using distance as the measure of effort is 0.0026 ± 0.0006 (95% confidence intervals).

Three caveats are made regarding use of catch rate as an index of abundance as follows:

1. Sampling protocols (methods, equipment, and approach) must be consistent.
2. Water clarity must remain above 50 cm.
3. The target population must remain closed during the sampling period.

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5.0 AGE STRUCTURED MARK-RECAPTURE MODEL

The estimation of population size is a key component for monitoring a fish population in a large river and for providing insight on the impacts of water management. However, independent annual snapshots of population size during a brief period of time are of limited usefulness. A common recommendation found in past Peace River Community Indexing Programs is the construction of an age structured mark-recapture (ASMR) model for mountain whitefish to integrate the historical data (e.g., mark-recapture, sampling effort, age composition, length-at-age, length frequency, and incremental growth of marked fish at large) for the estimation of population size, growth, mortality, and recruitment. Other benefits should include a better understanding of how capture probability varies with biological (e.g., size or age composition, mortality and population size) and physical (e.g., river flow, stage and clarity) factors. The ASMR analysis combines attributes of both the traditional mark recapture models (e.g. Jolly-Seber) and age- or size-structured virtual population analysis type methods. Examples of such models applied to other species are Fournier *et al.* (1998), Coggins *et al.* (2006) and Gazey *et al.* (2008). The ASMR approach has been subjected to considerable peer review and peer-review processes (e.g. Kitchell *et al.* 2003). There are now seven years of Peace River mountain whitefish data that we think are applicable for an ASMR model. The purpose of this section is the presentation of a conceptual ASMR model such that the feasibility for an integrated model can be assessed and provide direction with respect to model creation.

The mark-recapture program MARK (White 2006) offers a sophisticated treatment of ASMR; however, associated information such as growth and age-composition from independent samples is very difficult to integrate with the mark-recapture information. MARK assumes that all fish examined for the presence of a mark are subsequently marked. There is no provision nor possible code changes to allow for unmarked releases. For Peace River mountain whitefish, substantial numbers of fish are captured, examined for the presence of a mark and released without a mark applied. We have excluded MARK as a suitable tool for our desired ASMR because of these issues.

Coggins *et al.* (2006) have created an ASMR to use on humpback chub in the Little Colorado River that is applied to mountain whitefish in the Middle Columbia River by Golder (2008). The Coggins-ASMR also makes the assumption that all captured fish are marked; however, alteration of the program (i.e., change the code) is a straight-forward process to allow for unmarked releases. The Coggins-ASMR assumes that the age of each fish captured is known without error. Issues and problems associated with this assumption have been previously identified (e.g., Kitchell *et al.* 2003). For example, concerns were expressed by Kitchell *et al.* (2003) that the results may be biased, precision may be substantially

overstated and there is an inability to objectively evaluate model alternatives. Coggins (2008) makes considerable effort to quantify and assess the inclusion of ageing error and concludes that consideration of ageing error in the assessment procedures has resulted in less precise estimates of adult abundance and recruitment. For Peace River mountain whitefish, there is substantial uncertainty in ageing (only about 10% of encounters are aged by examination of scales) and there is considerable overlap in age-length keys (fish of the same length could be many alternative ages). At the very least, a consistent and objective approach over all years needs to be taken for the estimation of age-composition. Therefore, we conclude that ageing errors should be integrated into the estimation structure for Peace River mountain whitefish. In other words, instead of assessing the impact of ageing errors on the parameters of interest as in Coggins (2008) and Golder (2008), we recommend the explicit description of length frequency, age, and population dynamics in the estimation procedure.

Modern application of length frequency information to age-structured population dynamic statistical models has been pioneered by Fournier *et al.* (1990, 1998). We follow their approach here with heavy borrowings from Kleiber *et al.* (2006), Coggins *et al.* (2006) and Gazey *et al.* (2008). For convenience, only a single river section is considered (e.g., Section 1). With a template established for a single section, the other sections could be subsequently included (see Section 5.5).

In the following text, we review the available data and probable organization into dataset tables to which the model is to be fit. A general description of assumptions and subsequent procedures for model development as a function of fundamental parameters to be estimated is provided. An overview of the necessary distributional assumptions to marry the data and modeled expectations is given next. The mechanics of parameter estimation and model evaluation (inference) using information content is briefly explored. A rigorous mathematical development of one possible implementation is provided in Appendix F. Finally, a need for extensive growth analyses is recognized and the next steps to a full ASMR model are discussed.

5.1 AVAILABLE DATA

At least six data sets or tables should be integrated into the ASMR model. They are as follows:

Length Frequency

The length measurements need to be summed (counted) into four strata: section, year, type (unmarked, Floy, PIT), and bin (evenly spaced length intervals, say 5 mm in width). Figure 5.1 displays the suggested length frequency data collected in Section 1 (2008). Note that the single mode for fish > 250 mm includes

several age classes that will be difficult to separate without additional information. The data set has five fields: section, year, type, bin, and count.

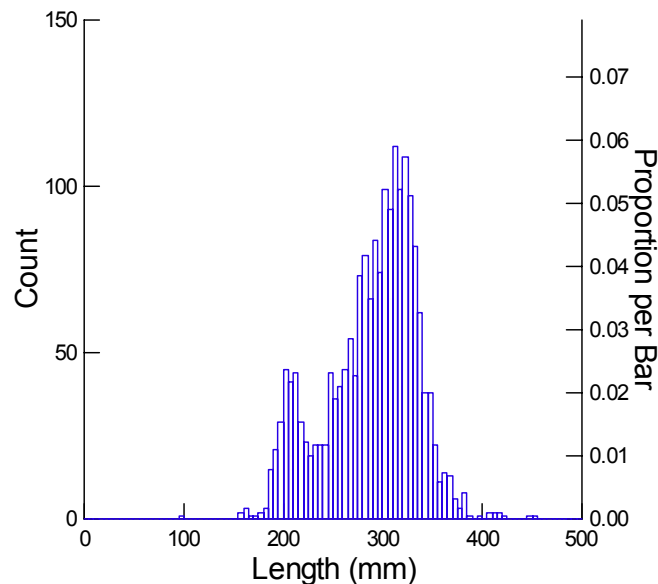


Figure 5.1 Length frequency of mountain whitefish sampled from Section 1, 2008 fish community indexing program.

Mark-Recapture

Mark-recapture information is used between years in the ASMR (i.e., multiple recaptures within a sampling year are not used in the likelihood). The within year recaptures experience minimal growth and can be used to estimate the variance of measurement error. For the between year data, count the number of unmarked encounters and the number of recaptures by tag type (Floy and PIT) by year. Of the marked fish, only the first encounter is counted. The number of unmarked fish subsequently marked during the year is recorded. Movement of fish between river sections between or within years has been rare. Consideration of marked fish that move between river sections can be delayed for now but will require attention soon (see Section 5.5). The data table has four fields: section, year, capture code, and count. The capture code has one of five possible entries: unmarked, Floy, PIT, new Floy, and new PIT.

Length-at-Age

The age of individual fish is determined from examination of scales. The data table has one record per fish with the following five fields: section, year, type (unmarked, Floy, PIT), length, and age.

Incremental Growth for Marked Fish at Large

The mark-recapture data provides information on the growth of individual fish. Because growth is minimal within a sampling year, the mark should be at large for more than a year to provide useful

information on growth. Also, ignore fish that traveled between river sections. The table has one record per fish with the following six fields: section, tag type (Floy or PIT), release date, recapture date, release length, and recapture length.

Abundance Indices

Inferential evidence on the constant catchability hypothesis has been the primary study objective for the Peace River Fish Community Indexing Program. Assuming constant catchability, all mountain whitefish encountered divided by effort provides an abundance index. The data table has three fields: section, year, and abundance index.

Age-class Composition

In contrast to the length-at-age data, the age-composition data must be a random sample (or representative) of mountain whitefish encountered to be used in the ASMR model. The data table has five fields: section, year, capture type (unmarked, Floy, PIT), age, and count.

5.2 MODEL DEFINITION

The role of model definition is the calculation of the expectation of observations listed above. More specifically, it is the prediction of the length by age-class, probability of a fish belonging to a length interval, the capture and recapture of unmarked and marked fish, abundance, and age-class composition as a function of fundamental parameters to be estimated (the parameters of most interest are population size, growth, mortality, and recruitment). The main assumptions required to make these predictions for one possible implementation (see Appendix F) are:

1. The trend of mountain whitefish in growth tracks a von Bertalanffy curve.
2. Age dependent survival is based on the Lorenzen model (Lorenzen 2000).
3. The length-frequency data consist of A age classes.
4. The oldest age-class, A , represents all older fish.
5. Mountain whitefish are fully vulnerable to electrofishing at age-class A^* .
6. The lengths in each age-class are normally distributed around their mean length.
7. All fish in a stratum (year-section), whether marked or unmarked, have the same probability of being caught.
8. All marks are reported on recovery.

The model implements these assumptions as steps or subroutines for the desired predictions.

Growth

Mean length by age is tracked by a von Bertalanffy growth curve. An unresolved issue in the literature is how to mesh growth information from an age (e.g., length-at-age) and length (e.g., increment in length in a tagging study) perspectives (see Francis 1988 for a good discussion of the issues involved). We believe a necessary step to solving the problem is to reparameterize the von Bertalanffy growth curve such that the traditional extreme extrapolation of the time-at-length-zero parameter is recast as a length within the observed data (e.g., mean length of youngest age-class as a parameter, see Appendix F). Note that the time-at-length-zero parameter does not occur in the tagging length expression of the von Bertalanffy growth curve (i.e., the same parameters should be in both functions).

Survival

An age-dependent survival function is based on growth such that mortality decreases with size and age until the asymptotic length is reached.

Boundary Values or Initialization

The ASMR model could be run in forward or backward propagation. In forward propagation the next age- and year-class is predicted from the current value. Therefore, initial values for the first year need to be set and recruitment to the youngest age-class estimated each year. In backward propagation, the usual in fisheries virtual population analysis, initial values need to be set for the terminal year and the oldest age-class is estimated each year. For Peace River mountain whitefish, we prefer the forward propagation because the desired recruitment estimates are the most direct; however, both models should be examined for how well they fit the data.

Update Marked and Unmarked

The age composition is calculated (predicted) for each year with adjustments for selectivity of younger age-classes and deviations (errors) in the age structure. The expected marked and unmarked population by age-class can then be updated using the predicted survival, age composition and the number of newly marked fish.

Expected Capture

Many alternative calculations of capture probability may be possible. For example, capture probability could be made a function of river stage or could depend only on the history of recaptured fish (i.e., a Jolly-Seber expression). As noted above in the introduction a better understanding of the biological and physical factors is one of the motivating objectives for the construction of an ASMR model. A simple but

powerful implementation is to make time-varying capture probability the fraction of the population sampled each year (see equations F.13 and F.14 in Appendix F).

Expected Length Frequency

The lengths of fish in each age class are assumed to be normally distributed and, following Fournier *et al.* (1990), the probability of fish in belonging to a length interval in any particular year can be approximated. Other length distributions could be used (e.g., a skewed gamma).

5.3 MODEL OBJECTIVE FUNCTION

The objective function for the model is the Bayesian posterior probability density distribution. The function is composed of data likelihood and prior distributions. In order to make calculations tractable we must make distributional assumptions for each of the objective function components.

For the likelihood components, we marry the data and modeled predictions outlined above. Assumptions used in Appendix F are summarized in Table 5.1. The weighted normal distribution for incremental tagging data is an attempt to address the “error in variables issue” caused by errors in length at release.

Table 5.1 Data and associated distributional assumptions for likelihood.

Data	Assumed Distribution
Length frequency	Robustified multinomial
Mark-recapture	Poisson
Length-at-age	Normal
Length increment from tag	Weighted normal
Abundance Index	Lognormal
Age composition	Multinomial

For the prior components, every fundamental parameter to be estimated requires a distribution. However, in many cases the desired distribution is a non-informative uniform distribution. Because we are using the mode of the posterior for the parameter estimates (see below), uniform prior distributions play no role and can be ignored. The remaining informative priors used for length, age and logged recruit deviations from the mean in Appendix F are assumed to be normally distributed with 0 mean and known variance (specified as a penalty weight). Some frequentist-orientated workers prefer to view the objective function as a constrained likelihood (the constraints are the prior distributions).

5.4 PARAMETER ESTIMATION AND MODEL INFERENCE

Parameter estimation can be accomplished through calculating the mode of the posterior distribution. Bard (1974) showed that this is equivalent to finding the minimum of the negative log-likelihood functions plus the negative log-probability density functions of the associated priors.

Minimization of the negative logged model objective function can be implemented through the software package AD Model Builder (Otter Research Limited 2000). Variable declaration, model definition and model objective function summarized above and more rigorously in Appendix F follow the structure required by AD Model Builder. The package allows for the restriction or bounding of parameter values, stepwise optimization, report production of standard errors, marginal posterior profiles and correlation between parameter estimates.

A benefit of including all errors in the estimation structure, in contrast to the ASMR used by Golder (2008), is that routine statistical model selection procedures (e.g., Akaika information criteria [AIC] or Bayes posterior factors [BPF]) are applicable and are simple to calculate (see Appendix F).

5.5 NEXT STEPS

The task of constructing a conceptual ASMR model for Peace River mountain whitefish has revealed that further growth analyses are necessary before proceeding with coding of the ASMR model. We estimate the total level of effort to accomplish both tasks will be substantial (60 - 80 professional days dependent on reporting requirements).

5.5.1 Growth Analyses

The objectives of the growth analyses are: (1) determine if year, spatial (river sector) and tag effects substantially impact growth of mountain whitefish and if so then how should the growth model be formulated to account for these effects; (2) determine a growth model formulation and estimation procedures for which length-at-age data and tagging length data provide consistent information on the growth model parameters; and, (3) cast the common likelihood of the growth parameters (all data sources) as a data-based prior.

The Community Indexing Program over all phases has indicated significant Floy tag and spatial differences in growth but less so for year effects. However, a systematic approach using all years of data to construct a common growth model has not yet been attempted. Temperature covariates (e.g., degree-

days above a set threshold between sampling occasions) should be investigated to possibly reduce the number of parameters to portray growth.

To the best of our knowledge, a methodology to combine the information obtained from length-at-age and tagging length data is not available in the literature. The “error in variables problem” is that the classical von Bertalanffy model for length-at-age data has age as the independent variable while the model for tagging length data uses length-at-release. A solution may lie in casting the von Bertalanffy model in a consistent fashion and in dealing with the errors in variables problem following Walters and Essington (2008) through the likelihood assembly (see equations F.1, F.19 and F.20 in Appendix F). For Peace River mountain whitefish, the Community Indexing Programs have occurred at the same time each year over a relative short period of time. Minimal growth has occurred within a sampling period (year). Therefore, there are no seasonal effects to deal with and we have a very good handle on measurement error. Both of these factors should simplify the problem.

An advantage of the Bayesian approach is that the problem can be partitioned. The benefit of casting the information derived from length-at-age and tagging length data as a prior (3rd objective) is that the estimation could be executed in two steps. Alternative ASMR models (see below) could be run efficiently assuming the same data based growth parameter priors.

5.5.2 ASMR Model Development

The objectives of the ASMR model development are: (1) code the model in AD Model Builder following Appendix F incorporating year effects and growth formulation resulting from the growth analyses; and (2) develop and evaluate alternative models. The coding should be straight forward because we have gone to substantial effort to cast the conceptual model in a format consistent with AD Model Builder. A minimal list of alternative models to evaluate follows:

1. Include inter-annual migration into and out of the study area following Golder (2008). The model can be evaluated via AIC.
2. Include Floy tag capture stratification to account for growth and subsequent mortality differences. Because the likelihood formulation would change goodness of fit criteria AIC is not applicable. However, the marginal posterior distributions for parameters or derived variables of interest (growth, mortality, population size, and recruitment) can be compared.
3. Include stratification by river sections following Fournier *et al.* (1998). Mark recapture data of marks traveling between river sections will need to be assembled. Again, AIC is not applicable; however, the marginal posterior distributions for parameters or derived variables of interest (growth, mortality, population size, and recruitment) can be compared.
4. Make the capture probability a function (e.g., linear covariate) of river stage. The model can be evaluated via AIC.

5. Recast the model using backward propagation for the population update. The population for the terminal year must be initialized and estimates involve the last age-class for every year. Recruitment is not estimated directly but becomes a derived variable. The model can be evaluated via AIC.

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6.0 SUMMARY

6.1 INDEXING PROGRAM

The stated overall objective of the Large River Fish Indexing Program to date was to establish fish monitoring protocols that can be used reliably across the Peace River and Columbia River watersheds to provide an index of the general status of the fish community. The Large River Fish Indexing Program for the Peace River will be integrated into the Peace Water Use Plan (WUP). The goal of the Large River Fish Indexing Program will shift from evaluation of monitoring protocols to evaluation of the effectiveness of the Peace River management plans.

The findings of the 2002 and 2003 programs indicated that the monitoring protocols were suitable to meet the objective of the program, particularly for mountain whitefish. Biological characteristics were suitable to monitor Arctic grayling and bull trout, but deficiencies related primarily to low fish numbers hindered use of catch rates and population estimates as monitoring tools for these two target species populations. Results from 2004, 2005, 2006, 2007, and the present study confirmed these findings with exceptions. These exceptions are as follows:

1. Water clarity less than 50 cm reduces capture efficiency (catchability), thereby hindering use of catch rate as an index of abundance under those sampling conditions.
2. Floy tags have a detrimental effect on fish health.
3. One or more factors in some index sections cause mountain whitefish to move or cause changes to within section catchability, which invalidates results of the closed population estimate model.
4. Arctic grayling catch rates decline during field sampling, which may be caused by sampling effects, movement, or altered catchability.
5. Adult bull trout are not fully present in the study section and hence vulnerable to capture during the field program and their availability differs between years and between sections. This hinders interpretation of biological data, catch rates, and population estimates.
6. Bull trout catch rates are strongly correlated with mountain whitefish catch rates, which may indicate unstable catchability.

The Peace River Fish Indexing Program, as presently designed, has the sensitivity to identify most issues specific to mountain whitefish as they occur and can adjust the analyses and interpretation accordingly.

However, the Peace River Large River Program, as presently designed, may not be appropriate to achieve the overall objective for two of its target species – Arctic grayling and bull trout.

Based on these findings we recommend the following:

1. Repeat the standard program to extend the time series data. Sample Sections 1, 3, and 5 to extend sampling history. The continuous seven year record of consistent and rigorous sampling is a valuable baseline for the target populations. Adding years to the data set will increase its value.
2. Maintain the current study design and sampling protocols.

These recommendations do not address a number of data gaps/issues that may compromise the ability to interpret the ecological significance of the indexing data. As recommended during previous investigations, consideration should be given to expanding the scope of the Peace River Fish Community Indexing Program, or developing separate sampling programs, in order to address these data gaps/issues as follows:

1. Develop a catchability coefficient for low water clarity conditions.
2. Collect data (i.e., fish movements, angler harvest, and river productivity) in order to interpret ecological meaning of the indexing information, and at the same time clarify some of the mark recapture assumptions.
3. Collect information to quantify recruitment of younger-aged fish into the target fish populations (i.e., dedicated small fish sampling program).

We understand that some of these data may be collected from separate programs, and will attempt to incorporate this information where suitable.

6.2 AGE STRUCTURED MARK-RECAPTURE MODEL

The probability is high for the successful completion of tasks for the Age Structured Mark-Recapture Model. Most data is in hand and will be straight-forward to organize. Additional physical data such as river stage and flow during the studies, and water temperature throughout the year need to be organized. With one exception, the analytical components are well established and understood. The exception is how to mesh length-at-age and tagging length data to obtain information on the growth parameters; however, the Walters and Essington (2008) unpublished manuscript does provide some direction. Moreover, the problem for Peace River mountain whitefish is simplified since the indexing program has occurred at the same time each year over a relative short period of time. Minimal growth has occurred within a sampling period (year). Therefore, there are no seasonal effects to deal with and we have a very good handle on measurement error. Both of these factors should simplify the problem.

Based on this information a recommendation is made regarding the ASMR model as follows:

1. Build an ASMR model as detailed in Section 5.0. If such models are to be maintained and used for the evaluation population health there will be a need to collect long term information on population dynamics (e.g., mortality and stock-recruitment functional form). The continued application of long-lasting marks (e.g., PIT tags) will assist in this endeavor.

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APPENDIX A to D

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Appendix A
Sample Sites

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Appendix A Table A1. Standard boat electrofisher sites, UTM locations (NAD 83; Zone 10V), and river kilometres in the Peace River Study Area, 2008 Peace River Fish Community Indexing Program.

Area	Site Label	Site Position	Upper			Lower		
			Easting	Northing	Kilometre	Easting	Northing	Kilometre
1								
	0101	Island Left Downstream Bank	566453	6207858	145.2	566936	6208239	144.6
	0102	Island Left Downstream Bank	566936	6208240	144.6	567497	6208907	143.7
	0103	Right Downstream Bank	566302	6207742	145.4	567401	6208075	144.4
	0104	Island Right Downstream Bank	566460	6207754	145.3	566934	6207880	144.6
	0105	Right Downstream Bank	567402	6208074	144.4	568000	6208913	143.3
	0106	Right Downstream Bank	568048	6209364	143.1	568480	6209769	142.4
	0107	Left Downstream Bank	568372	6210050	142.3	568798	6210402	141.4
	0108	Right Downstream Bank	568605	6209966	142.3	569259	6210477	141.2
	0109	Right Downstream Bank	569260	6210478	141.2	569850	6211235	140.4
	0110	Left Downstream Bank	568798	6210403	141.4	569302	6211053	140.6
	0111	Left Downstream Bank	569302	6211053	140.6	569825	6211869	139.8
	0112	Left Downstream Bank	569824	6211868	139.8	570686	6212472	138.9
	0113	Right Downstream Bank	569994	6211528	140.0	570510	6212043	139.2
	0114	Left Downstream Bank	570686	6212474	139.0	571342	6213121	137.9
	0116	Right Downstream Bank	570511	6212043	139.2	571265	6212633	138.1
3								
	0301	Right Downstream Bank	600824	6232860	98.4	602606	6233198	96.3
	0302	Island Right Downstream Bank	599753	6233307	99.2	601597	6233232	97.0
	0303	Island Right Downstream Bank	601597	6233232	97.0	602930	6233597	96.0
	0304	Island Left Downstream Bank	602583	6233193	96.3	603787	6233290	94.2
	0305	Left Downstream Bank	603204	6233827	95.6	604640	6233426	93.8
	0306	Left Downstream Bank	604655	6233435	93.8	605586	6233750	92.5
	0307	Island Right Downstream Bank	605976	6233888	92.2	606935	6234160	91.2
	0308	Island Right Downstream Bank	606935	6234158	91.2	607692	6235034	90.2
	0309	Island Left Downstream Bank	605976	6233878	92.2	606666	6234387	91.4
	0310	Island Left Downstream Bank	606662	6234395	91.4	607691	6235034	90.4
	0311	Left Downstream Bank	605585	6233743	92.5	606512	6234441	91.4
	0312	Left Downstream Bank	607058	6234840	91.3	608047	6235753	89.8
	0314	Right Downstream Bank	604468	6233079	93.9	605400	6233321	93.0
	0315	Right Downstream Bank	605400	6233320	93.0	606956	6233951	91.0
	0316	Right Downstream Bank	606956	6233951	91.0	607974	6234928	90.1

Appendix A Table A1. Standard boat electrofisher sites, UTM locations (NAD 83; Zone 10V), and river kilometres in the Peace River Study Area, 2008 Peace River Fish Community Indexing Program.

Area	Site Label	Site Position	Upper			Lower		
			Easting	Northing	Kilometre	Easting	Northing	Kilometre
5								
	0501	Right Downstream Bank	629169	6229759	64.0	630016	6229305	63.3
	0502	Right Downstream Bank	630016	6229305	63.3	630954	6229298	62.5
	0503	Island Right Downstream Bank	629023	6230250	64.8	629611	6229680	63.8
	0504	Island Right Downstream Bank	629787	6229549	63.4	630560	6229543	62.9
	0505	Left Downstream Bank	630553	6229765	62.9	631540	6229590	61.8
	0506	Left Downstream Bank	631540	6229590	61.8	631540	6229590	60.7
	0507	Right Downstream Bank	632491	6229713	61.3	632381	6229364	60.3
	0508	Left Downstream Bank	637926	6227901	54.1	638432	6227150	53.4
	0509	Island Right Downstream Bank	632785	6229686	60.6	633704	6229905	59.7
	0510	Right Downstream Bank	634530	6229634	59.0	635555	6230048	57.7
	0511	Left Downstream Bank	635651	6230419	57.7	636334	6230361	56.9
	0512	Island Right Downstream Bank	633855	6229835	59.4	634872	6230026	58.5
	0513	Right Downstream Bank	637113	6228814	55.4	637433	6228125	54.3
	0514	Island Left Downstream Bank	637427	6228123	54.4	637735	6227647	53.4
	0515	Island Right Downstream Bank	637376	6229072	55.2	637591	6228192	54.6

Appendix A Table A2. Control boat electrofisher sites, UTM locations (NAD 83; Zone 10V), and river kilometres in the Peace River Study Area, 2008 Peace River Fish Community Indexing Program.

Area	Site Label	Site Position	Upper			Lower		
			Easting	Northing	Kilometre	Easting	Northing	Kilometre
1 Lower Control								
	0106C	Right Downstream Bank	573514	6214938	135.3	573608	6215761	134.2
	0107C	Island Left Downstream Bank	573517	6215459	134.8	573462	6216110	134.1
1 Upper Control								
	0104C	Island Right Downstream Bank	564616	6207171	147.1	565133	6207289	146.6
	0105C	Island Left Downstream Bank	564866	6206886	147.0	565378	6207159	146.5
3 Lower Control								
	0304C	Right Downstream Bank	608596	6235716	88.2	609409	6236497	87.2
	0305C	Left Downstream Bank	610408	6237380	86.0	611358	6237332	84.9
3 Upper Control								
	0307C	Island Left Downstream Bank	594003	6228738	108.0	594883	6229602	106.1
	0308C	Right Downstream Bank	594435	6228759	107.3	595054	6229520	106.0
5 Lower Control								
	0501C	Right Downstream Bank	639926	6226021	51.0	640762	6225564	49.5
	0505C	Left Downstream Bank	640104	6226311	51.0	640835	6225973	50.2
5 Upper Control								
	0503C	Right Downstream Bank	626423	6232902	68.5	627096	6232397	67.6
	0504C	Island Left Downstream Bank	628555	6230896	65.4	628859	6230403	64.9

Appendix A Table A3. Water level recorder sites, UTM locations (NAD 83; Zone 10V), and river kilometres in the Peace River Study Area, 2008 Peace River Fish Community Indexing Program.

Area	Site Label	Site Position	Easting	Northing	Kilometre
1	WT01	Right Downstream Bank	586626	6223107	145.3
5	WT05	Right Downstream Bank	638086	6226992	53.1

Appendix B
Sampling Conditions

Appendix B Table B1. Standard boat electrofisher sampling conditions, 2008 Peace River Fish Community Indexing Program.

Area Site Label	Run	Date	Time	Effort (m) (s)	Habitat Type	Bank Habitat	Instream Habitat	Dominant Substrate	Dominant Cover	Bank Slope (1-4)	Water			Electrofisher				
											Temp. (C)	Clarity (cm)	Level (mm)		Vel. (1-4)	Cond. (us/cm)	Light (1-4)	A
0101																		
	1	21-Aug-08	12:30	614	SFN	A3	Run	Cobble	None	1			1120	4	3	3.2	60	354
	2	28-Aug-08	12:45	614	SFN	A3	Run	Cobble	None	1			1372	4	1		60	354
	3	04-Sep-08	11:45	614	SFN	A3	Run	Cobble	None	1			1392	4	1	4.0	60	354
	4	09-Sep-08	12:30	614	SFN	A3	Run	Cobble	None	1			1344	3	1	4.2	60	354
	5	15-Sep-08	10:00	614	SFN	A3	Run	Cobble	None	1		12.3	998	4	1	4.6	60	354
	6	18-Sep-08	10:00	614	SFN	A3	Run	Cobble	None	1		12.0	1317	3	1	4.6	60	354
0102																		
	1	21-Aug-08	13:30	870	SFN	A3	Run	Cobble	None	1			1157	4	2	3.2	60	354
	2	28-Aug-08	14:00	870	SFN	A3	Run	Cobble	None	1			1363	4	1		60	354
	3	04-Sep-08	13:15	870	SFN	A3	Run	Cobble	None	1			1388	4	1	4.2	60	354
	4	09-Sep-08	13:30	870	SFN	A3	Run	Cobble	None	1			1349	3	1	4.2	60	354
	5	15-Sep-08	10:30	870	SFN	A3	Run	Cobble	None	1			998	4	1	4.8	60	354
	6	18-Sep-08	10:30	870	SFN	A3	Run	Cobble	None	1			1319	3	1	4.6	60	354
0103																		
	1	21-Aug-08	10:30	1092	SFC	A1	Run	Boulder	R+L+B	2			932	2	4	4.5	60	354
	2	28-Aug-08	10:30	1092	SFC	A1	Run	Boulder	R+L+B	2			1367	4	2		60	354
	3	04-Sep-08	9:30	1092	SFC	A1	Run	Boulder	R+L+B	2		11.1	1388	3	2	4.2	60	354
	4	09-Sep-08	10:15	1092	SFC	A1	Run	Boulder	R+L+B	2		11.8	1344	3	1	4.2	60	354
	5	15-Sep-08	9:00	1092	SFC	A1	Run	Boulder	R+L+B	2		12.6	995	3	1	4.8	60	354
	6	18-Sep-08	8:45	1092	SFC	A1	Run	Boulder	R+L+B	2			1314	2	1	5.0	60	354
0104																		
	1	21-Aug-08	9:45	445	SFN	A3	Run	Cobble	None	1			761	2	4	4.8	60	354
	2	28-Aug-08	11:15	445	SFN	A3	Run	Cobble	None	1			1402	3	1		60	354
	3	04-Sep-08	10:00	445	SFN	A3	Run	Cobble	None	1		11.1	1389	2	1		60	354
	4	09-Sep-08	11:30	445	SFN	A3	Run	Cobble	None	1		11.6	1348	2	1	4.4	60	354
	5	15-Sep-08	9:30	445	SFN	A3	Run	Cobble	None	1			998	2	1	4.2	60	354
	6	18-Sep-08	9:45	445	SFN	A3	Run	Cobble	None	1			1318	2	1	4.6	60	354

Appendix B Table B1. Standard boat electrofisher sampling conditions, 2008 Peace River Fish Community Indexing Program.

Area Site Label	Run	Date	Time	Effort (m) (s)	Habitat Type	Bank Habitat	Instream Habitat	Dominant Substrate	Dominant Cover	Bank Slope (1-4)	Water			Cond. (us/cm) (1-4)	Light (1-4)	Electrofisher				
											Temp. (C)	Clarity (cm)	Level (mm) (1-4)			Vel. (1-4)	A	Hz	V	
0105																				
	1	21-Aug-08	11:30	1029	498	SFC	A2	Run	Boulder	R+B	2		1010	3	4	60	354			
	2	28-Aug-08	11:45	1029	462	SFC	A2	Run	Boulder	R+B	2	220	1484	3	1	60	354			
	3	04-Sep-08	11:00	1029	433	SFC	A2	Run	Boulder	R+B	2	220	1391	3	1	60	354			
	4	09-Sep-08	10:45	1029	465	SFC	A2	Run	Boulder	R+B	2	1348	3	1	4.4	60	354			
	5	15-Sep-08	9:15	1029	476	SFC	A2	Run	Boulder	R+B	2	999	3	1	4.4	60	354			
	6	18-Sep-08	9:15	1029	448	SFC	A2	Run	Boulder	R+B	2	1312	3	153	1	4.4	60	354		
0106																				
	1	20-Aug-08	9:15	591	522	SFN	A3	Run	Cobble	None	3	10.5	220	1113	1	4	60	354		
	2	28-Aug-08	14:45	591	278	SFN	A3	Run	Cobble	None	3	13.1	220	1342	2	1	60	354		
	3	03-Sep-08	9:30	591	456	SFN	A3	Run	Cobble	None	3	11.5	220	1323	1	2	4.5	60	354	
	4	09-Sep-08	9:30	591	462	SFN	A3	Run	Cobble	None	3	1341	2	1	4.6	60	354			
	5	15-Sep-08	10:45	591	462	SFN	A3	Run	Cobble	None	3	12.7	220	1049	2	153	1	5.0	60	354
	6	18-Sep-08	10:45	591	519	SFN	A3	Run	Cobble	None	3	1315	1	1	4.8	60	354			
0107																				
	1	20-Aug-08	9:30	551	322	SFC	A1	Run	Boulder	R+B	3		1116	2	4	60	354			
	2	28-Aug-08	10:00	551	342	SFC	A1	Run	Boulder	R+B	3	220	1019	3	1	4.7	60	354		
	3	03-Sep-08	10:15	551	289	SFC	A1	Run	Boulder	R+B	3	220	1322	2	1	60	354			
	4	09-Sep-08	14:15	551	423	SFC	A1	Run	Boulder	R+B	3	1349	2	1	4.8	60	354			
	5	15-Sep-08	11:00	551	333	SFC	A1	Run	Boulder	R+B	3	1337	2	1	5.0	60	354			
	6	18-Sep-08	11:15	551	390	SFC	A1	Run	Boulder	R+B	3	13.0	220	1321	2	156	1	5.0	60	354
0108																				
	1	21-Aug-08	9:30	828	509	SFN	A3	Run	Cobble	None	1	11.3	220	600	1	132	4	4.8	60	354
	2	28-Aug-08	9:00	828	534	SFN	A3	Run	Cobble	None	1	12.6	220	1057	2	2	4.2	60	354	
	3	03-Sep-08	11:30	828	457	SFN	A3	Run	Cobble	None	1	220	1326	2	2	60	354			
	4	09-Sep-08	15:00	828	560	SFN	A3	Run	Cobble	None	1	14.6	220	1351	2	154	1	4.4	60	354
	5	15-Sep-08	11:30	828	549	SFN	A3	Run	Cobble	None	1		1468	1	1	5.0	60	354		
	6	18-Sep-08	12:15	828	588	SFN	A3	Run	Cobble	None	1		1313	2	1	4.8	60	354		

Appendix B Table B1. Standard boat electrofisher sampling conditions, 2008 Peace River Fish Community Indexing Program.

Area Site Label	Run	Date	Time	Effort (m) (s)	Habitat Type	Bank Habitat	Instream Habitat	Dominant Substrate	Dominant Cover	Bank Slope (1-4)	Water			Cond. (us/cm) (1-4)	Light (1-4)	Electrofisher				
											Temp. (C)	Clarity (cm)	Level (mm)			Vel. (1-4)	A	Hz	V	
1																				
0109																				
	1	20-Aug-08	15:30	958	456	SFN	A3	Run	Cobble	None	1			1341	2	4	60	354		
	2	29-Aug-08	9:45	958	466	SFN	A3	Run	Cobble	None	1	12.8	220	1330	2	2	4.5	60	354	
	3	04-Sep-08	14:15	958	479	SFN	A3	Run	Cobble	None	1	12.7	220	1388	2	1	4.5	60	354	
	4	10-Sep-08	9:30	958	517	SFN	A3	Run	Cobble	None	1	11.0	1	1283	2	220	4.8	60	354	
	5	15-Sep-08	11:45	958	477	SFN	A3	Run	Cobble	None	1			1478	2	1	5.0	60	354	
	6	18-Sep-08	12:45	958	494	SFN	A3	Run	Cobble	None	1	13.3	220	1316	2	1	5.0	60	354	
0110																				
	1	20-Aug-08	10:00	821	442	SFC	A1	Run	Boulder	R+B	3			1110	2	4	60	354		
	2	28-Aug-08	15:15	821	504	SFC	A1	Run	Boulder	R+B	3		220	1362	3	1	60	354		
	3	03-Sep-08	10:45	821	404	SFC	A1	Run	Boulder	R+B	3		220	1319	2	1	60	354		
	4	10-Sep-08	11:00	821	595	SFC	A1	Run	Boulder	R+B	3			1340	2	1	5.0	60	354	
	5	15-Sep-08	12:30	821	521	SFC	A1	Run	Boulder	R+B	3	13.0	220	1350	2	156	1	5.0	60	354
	6	18-Sep-08	11:30	821	483	SFC	A1	Run	Boulder	R+B	3			1314	2	1	5.0	60	354	
0111																				
	1	20-Aug-08	10:45	968	625	SFC	A1	Run	Boulder	R+B	3			1459	3	4	60	354		
	2	29-Aug-08	10:45	968	680	SFC	A1	Run	Boulder	R+B	3		220	1492	3	1	4.5	60	354	
	3	03-Sep-08	13:00	968	483	SFC	A1	Run	Boulder	R+B	3		220	1322	3	1	60	354		
	4	10-Sep-08	12:00	968	647	SFC	A1	Run	Boulder	R+B	3	12.7	220	1342	3	157	1	4.8	60	354
	5	15-Sep-08	13:00	968	629	SFC	A1	Run	Boulder	R+B	3			1344	2	1	5.0	60	354	
	6	18-Sep-08	13:00	968	629	SFC	A1	Run	Boulder	R+B	3			1316	3	1	5.0	60	354	
0112																				
	1	20-Aug-08	11:30	1050	498	SFC	A1	Run	Boulder	R+B	2			1485	3	4	60	354		
	2	29-Aug-08	11:15	1050	508	SFC	A1	Run	Boulder	R+B	2		220	1492	2	1	60	354		
	3	03-Sep-08	13:45	1050	483	SFC	A1	Run	Boulder	R+B	2		220	1320	3	1	60	354		
	4	10-Sep-08	13:00	1050	657	SFC	A1	Run	Boulder	R+B	2		220	1343	3	1	5.0	60	354	
	5	15-Sep-08	14:00	1050	601	SFC	A1	Run	Boulder	R+B	2			1340	2	1	4.8	60	354	
	6	18-Sep-08	14:15	1050	580	SFC	A1	Run	Boulder	R+B	2	13.4	220	1315	2	153	1	5.0	60	354

Appendix B Table B1. Standard boat electrofisher sampling conditions, 2008 Peace River Fish Community Indexing Program.

Area Site Label	Run	Date	Time	Effort (m) (s)	Habitat Type	Bank Habitat	Instream Habitat	Dominant Substrate	Dominant Cover	Bank Slope (1-4)	Water Temp. (C)	Clarity (cm)	Level (mm) (1-4)	Vel. (1-4)	Cond. (us/cm) (1-4)	Light (1-4)	Electrofisher A Hz	Electrofisher V	
1																			
0113																			
	1	20-Aug-08	13:45	727	324	SFC	A2	Run	Cobble	L+B	2		1384	2		4	60	354	
	2	29-Aug-08	12:00	727	359	SFC	A2	Run	Cobble	L+B	2	220	1493	2		2	4.5	60	354
	3	04-Sep-08	15:00	727	359	SFC	A2	Run	Cobble	L+B	2	12.7	1391	3	137	1	4.2	60	354
	4	10-Sep-08	13:45	727	351	SFC	A2	Run	Cobble	L+B	2		1344	2		1	4.8	60	354
	5	15-Sep-08	13:30	727	359	SFC	A2	Run	Cobble	L+B	2	14.0	1341	2	150	1	4.8	60	354
	6	18-Sep-08	13:30	727	366	SFC	A2	Run	Cobble	L+B	2		1318	2		1	5.0	60	354
0114																			
	1	20-Aug-08	13:00	919	448	SFC	A2	Run	Boulder	R+B	2		1493	3		4	60	354	
	2	29-Aug-08	13:45	919	491	SFC	A2	Run	Boulder	R+B	2	220	1490	3		2	60	354	
	3	03-Sep-08	14:45	919	420	SFC	A2	Run	Boulder	R+B	2	220	1321	3		1	60	354	
	4	10-Sep-08	15:00	919	565	SFC	A2	Run	Boulder	R+B	2	12.1	1346	2	155	1	4.8	60	354
	5	15-Sep-08	14:45	919	571	SFC	A2	Run	Boulder	R+B	2	13.8	1065	2	153	1	4.8	60	354
	6	18-Sep-08	14:45	919	564	SFC	A2	Run	Boulder	R+B	2		1316	2		1	5.0	60	354
0116																			
	1	20-Aug-08	14:30	955	394	SFN	A3	Run	Cobble	None	1		1348	3		4	60	354	
	2	29-Aug-08	12:45	955	444	SFN	A3	Run	Cobble	None	1	220	1492	2		2	60	354	
	3	03-Sep-08	14:15	955	421	SFN	A3	Run	Cobble	None	1	220	1318	3		1	60	354	
	4	10-Sep-08	14:30	955	429	SFN	A3	Run	Cobble	None	1		1345	1		1	4.8	60	354
	5	15-Sep-08	13:45	955	387	SFN	A3	Run	Cobble	None	1		1343	2		1	4.6	60	354
	6	18-Sep-08	13:45	955	437	SFN	A3	Run	Cobble	None	1	220	1316	1		1	5.0	60	354
0301																			
	1	22-Aug-08	13:00	1808	883	SFC	A2	Run	Boulder	R+B	2		1341	3		1	5.0	60	354
	2	30-Aug-08	10:15	1808	897	SFC	A2	Run	Boulder	R+B	2	220	1337	3		3	5.0	60	354
	3	05-Sep-08	10:45	1808	902	SFC	A2	Run	Boulder	R+B	2	220	1105	2		2	60	354	
	4	11-Sep-08	11:00	1808	1003	SFC	A2	Run	Boulder	R+B	2	12.3	1013	2	154	2	5.0	60	354
	5	16-Sep-08	9:45	1808	977	SFC	A2	Run	Boulder	R+B	2	12.4	997	2	154	3	5.0	60	354
	6	19-Sep-08	10:00	1808	982	SFC	A2	Run	Boulder	R+B	2	11.4	220	2	158	1	5.2	60	354
3																			

Appendix B Table B1. Standard boat electrofisher sampling conditions, 2008 Peace River Fish Community Indexing Program.

Area Site Label	Run	Date	Time	Effort (m) (s)	Habitat Type	Bank Habitat	Instream Habitat	Dominant Substrate	Dominant Cover	Bank Slope (1-4)	Water			Cond. (us/cm) (1-4)	Light (1-4)	Electrofisher			
											Temp. (C)	Clarity (cm)	Level (mm) (1-4)			Vel. (1-4)	A	Hz	V
0302																			
	1	22-Aug-08	11:15	1840	760	SFC	A2	Run	Boulder	R+B	3	11.5	45	1338	3	1	4.8	60	354
	2	30-Aug-08	11:00	1840	638	SFC	A2	Run	Boulder	R+B	3		220	1338	2	3	4.8	60	354
	3	05-Sep-08	11:45	1840	634	SFC	A2	Run	Boulder	R+B	3		220	1031	2	1		60	354
	4	11-Sep-08	9:30	1840	888	SFC	A2	Run	Boulder	R+B	3	11.8	220	1015	2	2	4.8	60	354
	5	16-Sep-08	9:15	1840	868	SFC	A2	Run	Boulder	R+B	3	11.8	220	1000	2	3	4.8	60	354
	6	19-Sep-08	9:30	1840	884	SFC	A2	Run	Boulder	R+B	3	11.6	220		2	1	5.2	60	354
0303																			
	1	22-Aug-08	14:00	1378	622	SFC	A2	Run	Cobble	L+B	2		45	1492	3	1	4.5	60	354
	2	30-Aug-08	9:15	1378	734	SFC	A2	Run	Cobble	L+B	2	12.2	220	1334	2	3	4.8	60	354
	3	05-Sep-08	9:45	1378	775	SFC	A2	Run	Cobble	L+B	2		220	1025	2	2		60	354
	4	11-Sep-08	11:45	1378	729	SFC	A2	Run	Cobble	L+B	2		220	1016	2	2	4.2	60	354
	5	16-Sep-08	10:15	1378	719	SFC	A2	Run	Cobble	L+B	2	12.4		996	2	3	5.0	60	354
	6	19-Sep-08	10:30	1378	772	SFC	A2	Run	Cobble	L+B	2				2	1	5.0	60	354
0304																			
	1	22-Aug-08	15:00	1407	701	SFN	A2	Run	Cobble	Bank	1		220	1492	3	2	4.2	60	354
	2	30-Aug-08	12:15	1407	716	SFN	A2	Run	Cobble	Bank	1		220	1334	2	2		60	354
	3	05-Sep-08	13:15	1407	710	SFN	A2	Run	Cobble	Bank	1		220	1368	2	1		60	354
	4	11-Sep-08	13:00	1407	645	SFN	A2	Run	Cobble	Bank	1			1019	2	3	4.8	60	354
	5	16-Sep-08	10:45	1407	722	SFN	A2	Run	Cobble	Bank	1			1246	2	2	4.8	60	354
	6	19-Sep-08	11:15	1407	748	SFN	A2	Run	Cobble	Bank	1				2	1	5.0	60	354
0305																			
	1	22-Aug-08	16:00	1486	638	SFN	A2	Run	Cobble	Bank	1		15	1492	3	1	4.8	60	354
	2	30-Aug-08	13:15	1486	681	SFN	A2	Run	Cobble	Bank	1		60	1414	2	2	5.1	60	354
	3	05-Sep-08	14:15	1486	749	SFN	A2	Run	Cobble	Bank	1		85	1370	2	1		60	354
	4	11-Sep-08	14:30	1486	847	SFN	A2	Run	Cobble	Bank	1	12.2	59	1012	2	3	4.4	60	354
	5	16-Sep-08	11:30	1486	861	SFN	A2	Run	Cobble	Bank	1	13.1	83	1312	2	2	4.2	60	354
	6	19-Sep-08	11:00	1486	884	SFN	A2	Run	Cobble	Bank	1	12.8	110		2	1	4.8	60	354

3

Appendix B Table B1. Standard boat electrofisher sampling conditions, 2008 Peace River Fish Community Indexing Program.

Area Site Label	Run	Date	Time	Effort (m) (s)	Habitat Type	Bank Habitat	Instream Habitat	Dominant Substrate	Dominant Cover	Bank Slope (1-4)	Water			Electrofisher					
											Temp. (C)	Clarity (cm)	Level (mm)		Vel. (1-4)	Cond. (us/cm) (1-4)	Light (1-4)	A	Hz
0306																			
	1	24-Aug-08	9:45	980	SFN	A3	Run	Gravel	None	1	11.6	25	1457	1	204	3	4.8	60	354
	2	30-Aug-08	14:15	980	SFN	A3	Run	Gravel	None	1		60	1492	1		2	5.1	60	354
	3	05-Sep-08	16:15	980	SFN	A3	Run	Gravel	None	1		85	1370	1	242	1		60	354
	4	11-Sep-08	16:30	980	SFN	A3	Run	Gravel	None	1	12.6		1336	2	236	3	4.3	60	354
	5	16-Sep-08	12:00	980	SFN	A3	Run	Gravel	None	1			1302	1		2	4.4	60	354
	6	19-Sep-08	15:15	980	SFN	A3	Run	Gravel	None	1				1		1	4.8	60	354
0307																			
	1	24-Aug-08	12:45	994	SFN	A3	Run	Cobble	None	1		90	1224	3		2		60	354
	2	31-Aug-08	13:45	994	SFN	A3	Run	Cobble	None	1		220	1350	2	142	1		60	354
	3	06-Sep-08	10:45	994	SFN	A3	Run	Cobble	None	1	12.3		1014	2	175	3	4.8	60	354
	4	12-Sep-08	10:00	994	SFN	A3	Run	Cobble	None	1	10.8		869	2	177	2	4.4	60	354
	5	16-Sep-08	14:00	994	SFN	A3	Run	Cobble	None	1	13.8	185	1315	2	158	2	4.8	60	354
	6	19-Sep-08	13:30	994	SFN	A3	Run	Cobble	None	1	12.4	220		2	168	1	4.6	60	354
0308																			
	1	24-Aug-08	15:00	1155	SFN	A3	Run	Cobble	None	1		90	1113	2		3		60	354
	2	31-Aug-08	15:45	1155	SFN	A3	Run	Cobble	None	1		220	1351	3	142	1	4.8	60	354
	3	06-Sep-08	14:00	1155	SFN	A3	Run	Cobble	None	1	13.8		1014	2	176	2	3.8	60	354
	4	12-Sep-08	12:00	1155	SFN	A3	Run	Cobble	None	1			915	2		1	4.8	60	354
	5	16-Sep-08	14:30	1155	SFN	A3	Run	Cobble	None	1			1317	2		2	4.8	60	354
	6	19-Sep-08	14:00	1486	SFN	A3	Run	Cobble	None	1				2		1	4.8	60	354
0309																			
	1	23-Aug-08	14:30	855	SFN	A3	Run	Cobble	None	1	10.5	100	1436	2		1	4.5	60	354
	2	31-Aug-08	9:45	855	SFN	A3	Run	Cobble	None	1	12.5	220	1331	2	208	1	5.0	60	354
	3	06-Sep-08	15:15	855	SFN	A3	Run	Cobble	None	1	13.2	220	1075	2		2	3.8	60	354
	4	12-Sep-08	14:15	855	SFN	A3	Run	Cobble	None	1	13.8	220	1347	2	184	1	4.6	60	354
	5	16-Sep-08	16:00	855	SFN	A3	Run	Cobble	None	1	13.1	220	1319	2	165	2	4.8	60	354
	6	19-Sep-08	16:15	855	SFN	A3	Run	Cobble	None	1				2		1	4.8	60	354

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Appendix B Table B1. Standard boat electrofisher sampling conditions, 2008 Peace River Fish Community Indexing Program.

Area Site Label	Run	Date	Time	Effort (m) (s)	Habitat Type	Bank Habitat	Instream Habitat	Dominant Substrate	Dominant Cover	Bank Slope (1-4)	Water			Cond. (us/cm) (1-4)	Light (1-4)	Electrofisher				
											Temp. (C)	Clarity (cm)	Level (mm) (1-4)			Vel. (1-4)	A	Hz	V	
0310																				
	1	23-Aug-08	15:30	1208	658	SFC	A3	Run	Gravel	None	1	10.5	100	1436	3	1	4.5	60	354	
	2	31-Aug-08	11:30	1208	642	SFC	A3	Run	Gravel	None	1		220	1335	2	142	1	5.0	60	354
	3	06-Sep-08	17:00	1208	696	SFC	A3	Run	Gravel	None	1			1339	3	2	4.8	60	354	
	4	12-Sep-08	15:00	1208	732	SFC	A3	Run	Gravel	None	1			1342	2	1	4.8	60	354	
	5	16-Sep-08	16:30	1208	716	SFC	A3	Run	Gravel	None	1			1328	2	3	4.8	60	354	
	6	19-Sep-08	16:45	1208	677	SFC	A3	Run	Gravel	None	1	12.9			2	160	1	5.0	60	354
0311																				
	1	23-Aug-08	13:15	1158	590	SFC	A3	Flat	Cobble	None	1	10.5	25	1426	3	1	4.5	60	354	
	2	31-Aug-08	10:45	1158	580	SFC	A3	Flat	Cobble	None	1	12.5	38	1333	2	208	1	5.0	60	354
	3	06-Sep-08	16:00	1158	640	SFC	A3	Flat	Cobble	None	1	13.2	75	1352	3	250	2	4.0	60	354
	4	12-Sep-08	13:15	1158	649	SFC	A3	Flat	Cobble	None	1	12.1	65	1343	2	248	1	4.8	60	354
	5	16-Sep-08	15:30	1158	664	SFC	A3	Flat	Cobble	None	1			1315	2	2	4.8	60	354	
	6	19-Sep-08	15:45	1158	697	SFC	A3	Flat	Cobble	None	1	13.5	115		2	259	1	5.0	60	354
0312																				
	1	23-Aug-08	16:15	1343	642	SFN	A2	Run	Cobble	Bank	2	10.5	25	1435	2	1	4.5	60	354	
	2	31-Aug-08	12:45	1343	614	SFN	A2	Run	Cobble	Bank	2	12.9	38	1340	2	1	5.0	60	354	
	3	06-Sep-08	17:30	1343	657	SFN	A2	Run	Cobble	Bank	2	13.6		1345	3	234	2	5.0	60	354
	4	12-Sep-08	16:00	1343	679	SFN	A2	Run	Cobble	Bank	2	13.0		1351	2	216	1	4.8	60	354
	5	16-Sep-08	17:00	1343	718	SFN	A2	Run	Cobble	Bank	2	13.8	110	1344	2	211	3	4.8	60	354
	6	19-Sep-08	17:15	1343	674	SFN	A2	Run	Cobble	Bank	2	13.6	130		2	209	1	4.8	60	354
0314																				
	1	24-Aug-08	10:45	960	562	SFC	A2	Run	Cobble	Bank	2		220	1462	2	3	4.5	60	354	
	2	30-Aug-08	15:00	960	606	SFC	A2	Run	Cobble	Bank	2		220	1498	1	131	2	5.1	60	354
	3	05-Sep-08	15:30	960	569	SFC	A2	Run	Cobble	Bank	2		220	1369	2	149	1	60	354	
	4	11-Sep-08	15:30	960	703	SFC	A2	Run	Cobble	Bank	2			1210	2	3	4.8	60	354	
	5	16-Sep-08	12:45	960	658	SFC	A2	Run	Cobble	Bank	2	13.0	220	1314	2	152	2	4.6	60	354
	6	19-Sep-08	12:15	960	640	SFC	A2	Run	Cobble	Bank	2	12.3	220		2	154	1	5.0	60	354

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Appendix B Table B1. Standard boat electrofisher sampling conditions, 2008 Peace River Fish Community Indexing Program.

Area Site Label	Run	Date	Time	Effort (m) (s)	Habitat Type	Bank Habitat	Instream Habitat	Dominant Substrate	Dominant Cover	Bank Slope (1-4)	Water Temp. (C)	Clarity (cm)	Level (mm)	Vel. (1-4)	Cond. (us/cm) (1-4)	Light (1-4)	Electrofisher A Hz	Electrofisher V	
3																			
0315																			
	1	24-Aug-08	11:45	1674	913	SFC	A3	Flat	Cobble	None	1	220	1322	3	3	4.8	60	354	
	2	30-Aug-08	16:00	1674	920	SFC	A3	Flat	Cobble	None	1	220	1498	2	2	4.8	60	354	
	3	06-Sep-08	11:45	1674	1041	SFC	A3	Flat	Cobble	None	1	220	1014	2	3	4.8	60	354	
	4	11-Sep-08	17:30	1674	1002	SFC	A3	Flat	Cobble	None	1	220	1333	2	158	2	4.8	60	354
	5	16-Sep-08	13:15	1674	1075	SFC	A3	Flat	Cobble	None	1	220	1313	2	2	5.0	60	354	
	6	19-Sep-08	12:45	1674	1025	SFC	A3	Flat	Cobble	None	1	220		2	1	4.6	60	354	
0316																			
	1	24-Aug-08	14:00	1371	766	SFC	A2	Run	Cobble	R+L+B	3	220	1080	3	3	60	60	354	
	2	31-Aug-08	14:45	1371	761	SFC	A2	Run	Cobble	R+L+B	3	220	1345	3	142	1	5.0	60	354
	3	06-Sep-08	13:15	1371	863	SFC	A2	Run	Cobble	R+L+B	3	220	1003	4	3	4.5	60	354	
	4	12-Sep-08	11:00	1371	829	SFC	A2	Run	Cobble	R+L+B	3	220	1092	2	159	1	4.8	60	354
	5	16-Sep-08	15:00	1371	926	SFC	A2	Run	Cobble	R+L+B	3	220	1318	2	2	4.8	60	354	
	6	19-Sep-08	14:45	1371	844	SFC	A2	Run	Cobble	R+L+B	3	220		2	152	1	5.0	60	354
5																			
0501																			
	1	26-Aug-08	10:00	762	534	SFC	A2	Run	Cobble	Bank	2	170	3375	3	1	4.5	60	354	
	2	01-Sep-08	9:45	562	449	SFC	A2	Run	Cobble	Bank	2		3166	2	1	4.8	60	354	
	3	07-Sep-08	11:00	762	479	SFC	A2	Run	Cobble	Bank	2	12.1	3096	3	169	3	4.6	60	354
	4	13-Sep-08	11:30	762	498	SFC	A2	Run	Cobble	Bank	2	11.2	2788	2	170	1	4.8	60	354
	5	17-Sep-08	10:00	762	514	SFC	A2	Run	Cobble	Bank	2	11.7	3092	2	168	3	5.0	60	354
	6	20-Sep-08	9:15	762	468	SFC	A2	Run	Cobble	Bank	2	11.3	3011	2	165	3	5.0	60	354
0502																			
	1	26-Aug-08	10:45	1013	485	SFC	A2	Run	Cobble	L+B	2	170	3290	3	1	4.8	60	354	
	2	01-Sep-08	11:30	1013	443	SFC	A2	Run	Cobble	L+B	2		2946	2	178	2	4.6	60	354
	3	07-Sep-08	12:15	1013	465	SFC	A2	Run	Cobble	L+B	2	13.0	2972	2	178	1	4.6	60	354
	4	13-Sep-08	13:00	1013	482	SFC	A2	Run	Cobble	L+B	2		2639	3	1	4.8	60	354	
	5	17-Sep-08	10:30	1013	490	SFC	A2	Run	Cobble	L+B	2		3082	2	3	5.0	60	354	
	6	20-Sep-08	9:45	1013	447	SFC	A2	Run	Cobble	L+B	2		2968	2	2	5.0	60	354	

Appendix B Table B1. Standard boat electrofisher sampling conditions, 2008 Peace River Fish Community Indexing Program.

Area Site Label	Run	Date	Time	Effort (m) (s)	Habitat Type	Bank Habitat	Instream Habitat	Dominant Substrate	Dominant Cover	Bank Slope (1-4)	Water			Cond. (us/cm) (1-4)	Light (1-4)	Electrofisher				
											Temp. (C)	Clarity (cm)	Level (mm) (1-4)			Vel. (1-4)	A	Hz	V	
0503																				
	1	26-Aug-08	9:15	1059	397	SFN	A3	Run	Cobble	None	2	11.0	3435	3	1	4.5	60	354		
	2	01-Sep-08	9:15	1059	356	SFN	A3	Run	Cobble	None	2	12.2	3204	2	142	3	4.8	60	354	
	3	07-Sep-08	10:00	1059	425	SFN	A3	Run	Cobble	None	2		3154	2	3	4.4	60	354		
	4	13-Sep-08	11:00	1059	433	SFN	A3	Run	Cobble	None	2	11.1	220	2	177	1	4.6	60	354	
	5	17-Sep-08	9:30	1059	417	SFN	A3	Run	Cobble	None	2	11.0	220	2	171	3	4.6	60	354	
	6	20-Sep-08	8:45	1059	425	SFN	A3	Run	Cobble	None	2	11.3	3047	2	172	3	4.8	60	354	
0504																				
	1	27-Aug-08	9:30	582	366	SFN	A3	Run	Cobble	None	1	10.9	145	3	149	1	4.5	60	354	
	2	01-Sep-08	10:45	582	441	SFN	A3	Run	Cobble	None	1		3054	2	1		60	354		
	3	07-Sep-08	11:45	582	427	SFN	A3	Run	Cobble	None	1		220	2	2	4.8	60	354		
	4	13-Sep-08	12:15	582	469	SFN	A3	Run	Cobble	None	1	11.8		2	175	1	4.8	60	354	
	5	17-Sep-08	10:45	582	432	SFN	A3	Run	Cobble	None	1		3073	2	2	5.0	60	354		
	6	20-Sep-08	10:00	582	436	SFN	A3	Run	Cobble	None	1		2945	2	2	4.8	60	354		
0505																				
	1	26-Aug-08	16:45	976	551	SFC	A1	Run	Cobble	R+B	2		85	2627	3	1	60	354		
	2	01-Sep-08	12:30	976	554	SFC	A1	Run	Cobble	R+B	2		110	2781	2	154	1	60	354	
	3	07-Sep-08	13:45	976	622	SFC	A1	Run	Cobble	R+B	2	13.0		2790	1	178	1	5.0	60	354
	4	13-Sep-08	14:15	976	619	SFC	A1	Run	Cobble	R+B	2	12.6	185	2534	2	176	1	5.0	60	354
	5	17-Sep-08	11:15	976	637	SFC	A1	Run	Cobble	R+B	2	11.9	220	3051	2	175	2	5.0	60	354
	6	20-Sep-08	10:30	976	581	SFC	A1	Run	Cobble	R+B	2		2898	2	1	5.0	60	354		
0506																				
	1	26-Aug-08	17:30	1069	587	SFC	A2	Run	Cobble	Bank	2		85	2698	2	1	60	354		
	2	01-Sep-08	13:15	1069	623	SFC	A2	Run	Cobble	Bank	2		110	2650	2	154	1	60	354	
	3	07-Sep-08	14:45	1069	649	SFC	A2	Run	Cobble	Bank	2		220	2679	1	1	5.0	60	354	
	4	13-Sep-08	15:00	1069	708	SFC	A2	Run	Cobble	Bank	2		2488	2	1	5.0	60	354		
	5	17-Sep-08	11:45	1069	689	SFC	A2	Run	Cobble	Bank	2		3022	2	1	5.0	60	354		
	6	20-Sep-08	11:00	1069	765	SFC	A2	Run	Cobble	Bank	2		220	2852	2	1	5.0	60	354	

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Appendix B Table B1. Standard boat electrofisher sampling conditions, 2008 Peace River Fish Community Indexing Program.

Area Site Label	Run	Date	Time	Effort (m) (s)	Habitat Type	Bank Habitat	Instream Habitat	Dominant Substrate	Dominant Cover	Bank Slope (1-4)	Water			Electrofisher					
											Temp. (C)	Clarity (cm)	Level (mm)		Vel. (1-4)	Cond. (us/cm) (1-4)	Light (1-4)	A	Hz
0507																			
	1	26-Aug-08	16:15	1087	352	SFC	A2	Run	Cobble	L+B	2	11.0	100	2611	2	1	60	354	
	2	01-Sep-08	13:45	1087	329	SFC	A2	Run	Cobble	L+B	2	11.0	100	2564	2	2	60	354	
	3	07-Sep-08	15:15	1087	387	SFC	A2	Run	Cobble	L+B	2	13.3	220	2634	2	1	4.8	60	354
	4	13-Sep-08	15:30	1087	355	SFC	A2	Run	Cobble	L+B	2	13.3	220	2465	2	1	4.6	60	354
	5	17-Sep-08	12:15	1087	353	SFC	A2	Run	Cobble	L+B	2	12.8	220	2986	2	1	5.0	60	354
	6	20-Sep-08	11:30	1087	362	SFC	A2	Run	Cobble	L+B	2	12.8	220	2806	2	1	5.0	60	354
0508																			
	1	25-Aug-08	16:00	971	468	SFC	A2	Run	Cobble	Bank	1	13.5	220	3232	3	1	4.8	60	354
	2	02-Sep-08	15:30	971	480	SFC	A2	Run	Cobble	Bank	1	13.2	220	2489	2	2	60	354	
	3	08-Sep-08	14:00	971	528	SFC	A2	Run	Cobble	Bank	1	14.0	150	2677	1	3	4.6	60	354
	4	14-Sep-08	13:15	971	582	SFC	A2	Run	Cobble	Bank	1	13.2	220	2537	2	1	4.8	60	354
	5	17-Sep-08	15:45	971	526	SFC	A2	Run	Cobble	Bank	1	14.0	150	2685	2	1	60	354	
	6	20-Sep-08	15:00	971	529	SFC	A2	Run	Cobble	Bank	1	12.3	220	2614	2	1	5.0	60	354
0509																			
	1	26-Aug-08	18:00	898	471	SFN	A3	Run	Cobble	None	1	12.9	220	2771	3	1	4.5	60	354
	2	01-Sep-08	14:30	898	493	SFN	A3	Run	Cobble	None	1	13.9	220	2440	2	2	60	354	
	3	07-Sep-08	16:00	898	542	SFN	A3	Run	Cobble	None	1	12.3	220	2577	2	1	4.4	60	354
	4	13-Sep-08	16:00	898	549	SFN	A3	Run	Cobble	None	1	12.9	220	2452	2	1	4.8	60	354
	5	17-Sep-08	12:30	898	542	SFN	A3	Run	Cobble	None	1	13.9	220	2966	2	1	4.8	60	354
	6	20-Sep-08	11:45	898	517	SFN	A3	Run	Cobble	None	1	12.3	220	2785	2	1	5.0	60	354
0510																			
	1	27-Aug-08	10:30	1171	648	SFC	A1	Run	Cobble	R+L+B	2	10.9	150	3026	2	2	4.8	60	354
	2	01-Sep-08	15:15	1171	637	SFC	A1	Run	Cobble	R+L+B	2	10.8	150	2330	3	147	60	354	
	3	08-Sep-08	9:45	1171	657	SFC	A1	Run	Cobble	R+L+B	2	10.8	150	2996	3	2	4.8	60	354
	4	13-Sep-08	9:45	1171	611	SFC	A1	Run	Cobble	R+L+B	2	10.8	150	2966	3	1	4.8	60	354
	5	17-Sep-08	13:45	1171	677	SFC	A1	Run	Cobble	R+L+B	2	12.9	150	2851	2	1	5.0	60	354
	6	20-Sep-08	13:00	1171	629	SFC	A1	Run	Cobble	R+L+B	2	12.9	150	2695	2	1	5.0	60	354

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Appendix B Table B1. Standard boat electrofisher sampling conditions, 2008 Peace River Fish Community Indexing Program.

Area Site Label	Run	Date	Time	Effort (m) (s)	Habitat Type	Bank Habitat	Instream Habitat	Dominant Substrate	Dominant Cover	Bank Slope (1-4)	Water			Light (1-4)	Electrofisher					
											Temp. (C)	Clarity (cm)	Level (mm)		Vel. (1-4)	Cond. (us/cm)	A	Hz	V	
0511																				
	1	27-Aug-08	11:15	924	527	SFC	A2	Run	Cobble	R+B	2	10.9	150	2933	3	1	4.8	60	354	
	2	02-Sep-08	11:45	924	381	SFC	A2	Run	Cobble	R+B	2		2933	2	1		60	354	354	
	3	08-Sep-08	10:45	924	494	SFC	A2	Run	Cobble	R+B	2		2901	2	2	5.0	60	354	354	
	4	14-Sep-08	10:30	924	513	SFC	A2	Run	Cobble	R+B	2		2829	2	1	4.6	60	354	354	
	5	17-Sep-08	14:00	924	567	SFC	A2	Run	Cobble	R+B	2		2828	2	1	5.0	60	354	354	
	6	20-Sep-08	13:30	924	591	SFC	A2	Run	Cobble	R+B	2		2667	2	1	5.0	60	354	354	
0512																				
	1	26-Aug-08	18:45	1098	602	SFN	A3	Run	Cobble	None	1		2880	2	1		60	354	354	
	2	02-Sep-08	10:45	1098	551	SFN	A3	Run	Cobble	None	1	12.5	3056	2	1	4.5	60	354	354	
	3	07-Sep-08	17:00	1098	703	SFN	A3	Run	Cobble	None	1	13.1	220	2533	2	175	2	4.8	60	354
	4	14-Sep-08	9:45	1098	646	SFN	A3	Run	Cobble	None	1	11.8	220	2912	2	182	1	4.6	60	354
	5	17-Sep-08	13:15	1098	698	SFN	A3	Run	Cobble	None	1		2900	2	1	4.8	60	354	354	
	6	20-Sep-08	12:30	1098	692	SFN	A3	Run	Cobble	None	1		2726	1	1	5.0	60	354	354	
0513																				
	1	27-Aug-08	13:15	999	426	SFN	A3	Run	Cobble	None	1		150	2635	2	1		60	354	354
	2	02-Sep-08	14:00	999	382	SFN	A3	Run	Cobble	None	1		2623	2	1		60	354	354	
	3	08-Sep-08	12:00	999	415	SFN	A3	Run	Cobble	None	1		2793	2	3	5.0	60	354	354	
	4	14-Sep-08	12:00	999	415	SFN	A3	Run	Cobble	None	1	12.7	220	2655	2	164	1	4.8	60	354
	5	17-Sep-08	15:00	999	414	SFN	A3	Run	Cobble	None	1		2741	2	1	4.6	60	354	354	
	6	20-Sep-08	14:15	999	397	SFN	A3	Run	Cobble	None	1		2636	2	1	5.0	60	354	354	
0514																				
	1	27-Aug-08	14:00	785	350	SFN	A3	Run	Cobble	None	1		150	2514	2	1		60	354	354
	2	02-Sep-08	15:00	785	318	SFN	A3	Run	Cobble	None	1		2517	2	2		60	354	354	
	3	08-Sep-08	13:15	785	363	SFN	A3	Run	Cobble	None	1		2711	2	4	5.0	60	354	354	
	4	14-Sep-08	12:45	785	334	SFN	A3	Run	Cobble	None	1		2580	2	1	4.8	60	354	354	
	5	17-Sep-08	15:15	785	340	SFN	A3	Run	Cobble	None	1	14.2	220	2720	2	160	1	60	354	354
	6	20-Sep-08	14:45	785	327	SFN	A3	Run	Cobble	None	1	13.1	220	2621	2	163	1	5.0	60	354

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Appendix B Table B1. Standard boat electrofisher sampling conditions, 2008 Peace River Fish Community Indexing Program.

Area Site Label	Run	Date	Time	Effort (m) (s)	Habitat Type	Bank Habitat	Instream Habitat	Dominant Substrate	Dominant Cover	Bank Slope (1-4)	Water			Electrofisher					
											Temp. (C)	Clarity (cm)	Level (mm)	Vel. (1-4)	Cond. (us/cm) (1-4)	Light (1-4)	A	Hz	V
	0515																		
	1	27-Aug-08	12:15	802	557	SFN	A3	Run	Cobble	None	1	150	2790	2	1	4.5	60	354	
	2	02-Sep-08	13:00	802	509	SFN	A3	Run	Cobble	None	1	125	2759	2	1	60	60	354	
	3	08-Sep-08	11:30	802	533	SFN	A3	Run	Cobble	None	1	13.4	2833	2	2	4.8	60	354	
	4	14-Sep-08	11:15	802	555	SFN	A3	Run	Cobble	None	1		2740	2	1	4.6	60	354	
	5	17-Sep-08	14:30	802	538	SFN	A3	Run	Cobble	None	1		2783	2	1	5.0	60	354	
	6	20-Sep-08	14:00	802	594	SFN	A3	Run	Cobble	None	1	12.7	2645	2	1	5.0	60	354	

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Appendix B Table B2. Control boat electrofisher sampling conditions, 2008 Peace River Fish Community Indexing Program.

Area Site Label	Run	Date	Time	Effort (m) (s)	Habitat Type	Bank Habitat	Instream Habitat	Dominant Substrate	Dominant Cover	Bank Slope (1-4)	Water Temp. (C)	Clarity (cm)	Level (mm)	Vel. (1-4)	Cond. (us/cm)	Light (1-4)	Electrofisher A Hz	Electrofisher V	
1 Lower Control																			
0106C	1	19-Aug-08	14:15	734	460	SFC						1508	3		4	4.5	60	354	
0107C	1	19-Aug-08	15:00	668	260	SFN						1389	3		4	4.5	60	354	
1 Upper Control																			
0104C	1	19-Aug-08	13:30	483	216	SFN					11.5		1497	4	128	4	4.5	60	354
0105C	1	19-Aug-08	12:45	594	253	SFN					11.0	210.0	1470	4		4	4.8	60	354
3 Lower Control																			
0304C	1	23-Aug-08	11:15	1180	701	SFC					11.1	220.0	1421	2		2	4.5	60	354
0305C	1	23-Aug-08	11:45	989	485	SFC					11.1	38.0	1422	3	170	2	5.0	60	354
3 Upper Control																			
0307C	1	22-Aug-08	10:30	1640	582	SFN						220.0	1335	3		1	5.0	60	354
0308C	1	22-Aug-08	9:30	1205	530	SFC						220.0	1333	3	135	4	4.8	60	354
5 Lower Control																			
0501C	1	25-Aug-08	14:45	950	502	SFN						80.0		3		1	4.5	60	354
0505C	1	25-Aug-08	15:15	810	539	SFC						80.0	3225	3		1	4.8	60	354

Appendix B Table B2. Control boat electrofisher sampling conditions, 2008 Peace River Fish Community Indexing Program.

Area Site Label	Run	Date	Time	Effort (m) (s)	Habitat Type	Bank Habitat	Instream Habitat	Dominant Substrate	Dominant Cover	Bank Slope (1-4)	Water Temp. (C)	Clarity (cm)	Level (mm)	Vel. (1-4)	Cond. (us/cm)	Light (1-4)	Electrofisher A Hz	Electrofisher V	
5 Upper Control																			
0503C																			
	1	25-Aug-08	10:15	840	435	SFC					11.0	220.0		2		1	4.5	60	354
0504C																			
	1	25-Aug-08	11:00	600	394	SFN						80.0		3		1	4.5	60	354

Appendix C
Biological Characteristics

Appendix C Table C1. Biological characteristics data for sampled fish, 2008 Peace River Fish Community Indexing Program.

Area and Site Label	Session	FishID	Common Name	Fork Length (mm)	Weight (gm)	Age Structure	Age	Capture Code	Tag		
									Type	Number	Colour
1											
0106	1	162	Mountain whitefish	247	182	Scales		0			
0106	1	163	Mountain whitefish	227	116	Scales		0			
0106	1	164	Mountain whitefish	196	74	Scales		0			
0106	1	165	Rainbow trout	348	510			0			
0106	1	166	Rainbow trout	200	108			0			
0106	1	167	Mountain whitefish	339	356	Scales		0	PIT	000000247122	
0106	1	168	Mountain whitefish	238	162	Scales		0			
0106	1	169	Mountain whitefish	200	84	Scales		0			
0106	1	170	Mountain whitefish	204	98	Scales		0			
0107	1	171	Mountain whitefish	291	346	Scales	4	0			
0107	1	172	Mountain whitefish	299	320	Scales		0			
0107	1	173	Mountain whitefish	294	340	Scales		0	PIT	000000245861	
0107	1	174	Mountain whitefish	301	366	Scales		0	PIT	000000245509	
0107	1	175	Mountain whitefish	314	380	Scales		0	PIT	000000246961	
0107	1	176	Mountain whitefish	326	438	Scales		2	FLOY	10725	YELLOW
0107	1	177	Mountain whitefish	330	366	Scales		0	PIT	000000246691	
0107	1	178	Mountain whitefish	233	142	Scales		0			
0107	1	179	Mountain whitefish	317	352	Scales		0	PIT	000000245820	
0107	1	180	Mountain whitefish	319	302	Scales		2	FLOY	3098	ORANGE
0107	1	181	Mountain whitefish	303	326	Scales	4	0	PIT	000000247187	
0107	1	182	Mountain whitefish	318	412	Scales	6	0	PIT	000000245819	
0107	1	183	Mountain whitefish	250	182	Scales		0	PIT	000000245808	
0107	1	184	Rainbow trout	271	246			0			
0107	1	185	Mountain whitefish	290	320	Scales		0	PIT	000000246177	
0107	1	186	Mountain whitefish	387	562	Scales		0	PIT	000000246531	
0107	1	187	Mountain whitefish	271	264	Scales		0	PIT	000000246338	
0110	1	188	Rainbow trout	349	556			0			
0110	1	189	Rainbow trout	317	394			0			
0110	1	190	Mountain whitefish	328	484	Scales		0			
0110	1	191	Rainbow trout	325	402			0			
0110	1	192	Mountain whitefish	349	410	Scales		0	PIT	000000246888	
0110	1	193	Mountain whitefish	306	366	Scales		0	PIT	000000247170	
0110	1	194	Mountain whitefish	248	186	Scales	3	0			
0110	1	195	Mountain whitefish	280	250	Scales	4	0	PIT	000000246545	
0110	1	196	Mountain whitefish	210	114	Scales		0			
0110	1	197	Mountain whitefish	317	314	Scales		0	PIT	000000245882	
0110	1	198	Rainbow trout	135	28			0			
0110	1	199	Mountain whitefish	346	366	Scales		2	PIT	4D00030911	
0110	1	200	Mountain whitefish	282	240	Scales		2	PIT	000000244443	
0110	1	201	Mountain whitefish	261	210	Scales		0	PIT	000000246405	
0110	1	202	Mountain whitefish	338	314	Scales		2	FLOY	3217	ORANGE
0110	1	203	Mountain whitefish	312	356	Scales		0	PIT	000000247184	
0110	1	204	Mountain whitefish	280	286	Scales		0	PIT	000000245537	
0110	1	205	Mountain whitefish	248	174	Scales		0			
0110	1	206	Mountain whitefish	199	94	Scales		0			
0110	1	207	Mountain whitefish	295	308	Scales		0	PIT	000000246588	
0110	1	208	Mountain whitefish	329	412	Scales		0	PIT	000000247125	
0110	1	209	Mountain whitefish	317	364	Scales		0	PIT	000000246840	
0110	1	210	Mountain whitefish	292	330	Scales		0			
0110	1	211	Mountain whitefish	272	210	Scales		0	PIT	000000246837	
0110	1	212	Mountain whitefish	265	232	Scales		0	PIT	000000246673	
0110	1	213	Mountain whitefish	285	288	Scales		0	PIT	000000245778	
0110	1	214	Mountain whitefish	275	270	Scales		0	PIT	000000246258	
0110	1	215	Mountain whitefish	338	400	Scales		0	PIT	000000246598	
0110	1	216	Mountain whitefish	317	302	Scales		0	PIT	000000247052	
0111	1	217	Mountain whitefish	304	362	Scales		3	FLOY	13383	WHITE
0111	1	218	Mountain whitefish	335	440	Scales		0			
0111	1	219	Mountain whitefish	232	142	Scales		0			
0111	1	220	Mountain whitefish	224	148	Scales		0			
0111	1	221	Mountain whitefish	343	426	Scales		2	FLOY	9823	YELLOW
0111	1	222	Mountain whitefish	295	348	Scales		0	PIT	000000243592	
0111	1	223	Mountain whitefish	193	90	Scales		0			
0111	1	224	Mountain whitefish	220	110	Scales		0			
0111	1	225	Mountain whitefish	303	332	Scales		0	PIT	000000246082	

Appendix C Table C1. Biological characteristics data for sampled fish, 2008 Peace River Fish Community Indexing Program.

Area and Site Label	Session	FishID	Common Name	Fork Length (mm)	Weight (gm)	Age Structure	Age	Capture Code	Tag			
									Type	Number	Colour	
1												
	0111	1	226	Mountain whitefish	315	348	Scales	0	PIT		000000246562	
	0111	1	227	Mountain whitefish	288	278	Scales	0	PIT		000000245993	
	0111	1	228	Mountain whitefish	208	100	Scales	0				
	0111	1	229	Mountain whitefish	260	204	Scales	0	PIT		000000244899	
	0111	1	230	Mountain whitefish	190	108	Scales	0				
	0111	1	231	Mountain whitefish	175	74	Scales	0				
	0111	1	232	Mountain whitefish	445	1024	Scales	11	0	PIT	000000246758	
	0111	1	233	Mountain whitefish	349	490	Scales		2	FLOY	8161	YELLOW
	0111	1	234	Mountain whitefish	298	286	Scales	5	0	PIT	000000245666	
	0111	1	235	Mountain whitefish	278	274	Scales		0	PIT	000000243398	
	0111	1	236	Mountain whitefish	282	256	Scales	0	PIT		000000245765	
	0111	1	237	Mountain whitefish	258	206	Scales	0	PIT		000000245891	
	0111	1	238	Mountain whitefish	216	124	Scales	0				
	0111	1	239	Mountain whitefish	214	90	Scales	0				
	0111	1	240	Mountain whitefish	352	468	Scales	6	0	PIT	000000245812	
	0111	1	241	Mountain whitefish	315	364	Scales		0	PIT	000000246609	
	0111	1	242	Mountain whitefish	306	316	Scales	0	PIT		000000246586	
	0111	1	243	Mountain whitefish	262	204	Scales	0	PIT		000000247174	
	0111	1	244	Rainbow trout	235	166		0				
	0111	1	245	Mountain whitefish	215	128	Scales	0				
	0111	1	246	Mountain whitefish	194	84	Scales	0				
	0111	1	247	Mountain whitefish	254	198	Scales	0	PIT		000000245773	
	0111	1	248	Mountain whitefish	363	466	Scales		2	FLOY	6676	YELLOW
	0111	1	249	Mountain whitefish	338	434	Scales		2	PIT	000000242867	
	0111	1	250	Mountain whitefish	294	314	Scales	0	PIT		000000245437	
	0111	1	251	Mountain whitefish	310	334	Scales		2	PIT	000000242327	
	0111	1	252	Mountain whitefish	320	376	Scales		2	FLOY	11962	WHITE
	0112	1	253	Mountain whitefish	319	342	Scales		2	FLOY	11903	WHITE
	0112	1	254	Mountain whitefish	304	320	Scales		2	FLOY	14439	WHITE
	0112	1	255	Mountain whitefish	307	294	Scales	0	PIT		000000246567	
	0112	1	256	Mountain whitefish	353	420	Scales	0	PIT		000000246373	
	0112	1	257	Rainbow trout	220	132		0				
	0112	1	258	Mountain whitefish	285	256	Scales		2	FLOY	3348	ORANGE
	0112	1	259	Mountain whitefish	314	330	Scales		2	FLOY	11982	WHITE
	0112	1	260	Mountain whitefish	266	230	Scales	0	PIT		000000246646	
	0112	1	261	Mountain whitefish	281	266	Scales	0	PIT		000000246597	
	0112	1	262	Mountain whitefish	238	136	Scales	0				
	0112	1	263	Mountain whitefish	288	296	Scales		2	PIT	000000243471	
	0112	1	264	Mountain whitefish	200	84	Scales	0				
	0112	1	265	Rainbow trout	117	18		0				
	0112	1	266	Mountain whitefish	287	348	Scales		2	PIT	000000241933	
	0112	1	267	Mountain whitefish	285	314	Scales		2	FLOY	8221	YELLOW
	0112	1	268	Mountain whitefish	290	272	Scales		2	PIT	0A00745407	
	0112	1	269	Mountain whitefish	326	378	Scales		2	PIT	0A00717831	
	0112	1	270	Mountain whitefish	323	400	Scales	0	PIT		000000243524	
	0112	1	271	Mountain whitefish	194	84	Scales	0				
	0112	1	272	Mountain whitefish	357	478	Scales		2	FLOY	9820	YELLOW
	0112	1	273	Mountain whitefish	273	240	Scales	0	PIT		000000246844	
	0112	1	274	Mountain whitefish	238	142	Scales	0				
	0112	1	275	Rainbow trout	217	118		0				
	0112	1	276	Mountain whitefish	308	324	Scales		2	FLOY	9815	YELLOW
	0112	1	277	Mountain whitefish	281	290	Scales		2	PIT	000000237757	
	0112	1	278	Mountain whitefish	310	380	Scales	0	PIT		000000246378	
	0112	1	279	Mountain whitefish	370	536	Scales	0	PIT		000000247256	
	0112	1	280	Mountain whitefish	328	394	Scales		2	FLOY	5236	YELLOW
	0112	1	281	Mountain whitefish	324	408	Scales	6	0	PIT	000000246744	
	0112	1	282	Mountain whitefish	300	320	Scales	0	PIT		000000246547	
	0112	1	283	Mountain whitefish	325	366	Scales	0	PIT		000000246924	
	0112	1	284	Mountain whitefish	210	98	Scales	0				
	0112	1	285	Mountain whitefish	253	190	Scales	0	PIT		000000246975	
	0112	1	286	Mountain whitefish	321	380	Scales		2	PIT	0A00726437	
	0112	1	287	Mountain whitefish	309	356	Scales	0	PIT		000000247080	
	0112	1	288	Mountain whitefish	289	284	Scales	0	PIT		000000246642	
	0112	1	289	Mountain whitefish	285	270	Scales		2	FLOY	11972	WHITE

Appendix C Table C1. Biological characteristics data for sampled fish, 2008 Peace River Fish Community Indexing Program.

Area and Site Label	Session	FishID	Common Name	Fork Length (mm)	Weight (gm)	Age Structure	Age	Capture Code	Tag			
									Type	Number	Colour	
1	0112	1	290	Mountain whitefish	285	268	Scales	0	PIT	:000000246035		
	0112	1	291	Mountain whitefish	302	290	Scales	2	FLOY		8228	YELLOW
	0112	1	292	Mountain whitefish	329	400	Scales	5	PIT	:000000246599		
	0112	1	293	Bull trout	208	88	Fin Ray	2	0			
	0112	1	294	Mountain whitefish	326	318	Scales	0				
	0112	1	295	Mountain whitefish	336	444	Scales	0	PIT	:000000246519		
	0112	1	296	Mountain whitefish	418	892	Scales	0	PIT	:000000246289		
	0112	1	297	Mountain whitefish	344	390	Scales	2	FLOY		2222	YELLOW
	0112	1	298	Mountain whitefish	330	376	Scales	7	0	PIT	:000000246778	
	0112	1	299	Mountain whitefish	287	308	Scales	0				
	0112	1	300	Mountain whitefish	311	270	Scales	6	2	PIT	:000000237966	
	0112	1	301	Mountain whitefish	373	532	Scales	2	FLOY		8181	YELLOW
	0112	1	302	Mountain whitefish	310	328	Scales	0	PIT	:000000246090		
	0112	1	303	Mountain whitefish	293	280	Scales	2	PIT	:000000238499		
	0112	1	304	Mountain whitefish	259	206	Scales	0	PIT	:000000245874		
	0112	1	305	Mountain whitefish	318	336	Scales	5	PIT	:000000246952		
	0112	1	306	Mountain whitefish	285	296	Scales	0	PIT	:000000246077		
	0112	1	307	Mountain whitefish	211	98	Scales	2	0			
	0112	1	308	Mountain whitefish	335	436	Scales	0	PIT	:000000245350		
	0112	1	309	Mountain whitefish	328	430	Scales	0	PIT	:000000246063		
	0112	1	310	Mountain whitefish	273	252	Scales	0	PIT	:000000246759		
	0112	1	311	Mountain whitefish	237	158	Scales	0				
	0112	1	312	Mountain whitefish	320	396	Scales	0				
	0112	1	313	Mountain whitefish	331	378	Scales	0				
	0112	1	314	Mountain whitefish	318	396	Scales	0	PIT	:000000245767		
	0112	1	315	Mountain whitefish	324	404	Scales	5	0	PIT	:000000247191	
	0112	1	316	Mountain whitefish	294	328	Scales	0	PIT	:000000245711		
	0112	1	317	Mountain whitefish	308	374	Scales	0				
	0112	1	318	Mountain whitefish	205	90	Scales	0				
	0114	1	319	Arctic grayling	294	362	Scales	2	0	PIT	:000000246596	
	0114	1	320	Mountain whitefish	271	204	Scales	0	PIT	:000000245867		
	0114	1	321	Mountain whitefish	313	322	Scales	2	FLOY		13366	WHITE
	0114	1	322	Mountain whitefish	311	348	Scales	4	0	PIT	:000000246552	
	0114	1	323	Mountain whitefish	244	162	Scales	0				
	0114	1	324	Mountain whitefish	264	220	Scales	3	0	PIT	:000000245341	
	0114	1	325	Mountain whitefish	284	274	Scales	2	FLOY		3444	ORANGE
	0114	1	326	Arctic grayling	328	524	Scales	3	0	PIT	:000000246656	
	0114	1	327	Mountain whitefish	274	226	Scales	0	PIT	:000000247139		
	0114	1	328	Rainbow trout	221	158		0				
	0114	1	329	Mountain whitefish	323	390	Scales	0	PIT	:000000245464		
	0114	1	330	Mountain whitefish	323	392	Scales	2	PIT	:000000246245		
	0114	1	331	Mountain whitefish	253	174	Scales	3	0	PIT	:000000247086	
	0114	1	332	Mountain whitefish	280	274	Scales	0	PIT	:000000247277		
	0114	1	333	Mountain whitefish	276	254	Scales	0				
	0114	1	334	Mountain whitefish	268	230	Scales	0	PIT	:000000243852		
	0114	1	335	Mountain whitefish	248	190	Scales	0				
	0114	1	336	Rainbow trout	218	124		0				
	0114	1	337	Mountain whitefish	197	84	Scales	0				
	0114	1	338	Rainbow trout	134	30		0				
	0114	1	339	Mountain whitefish	272	226	Scales	0	PIT	:000000245824		
	0114	1	340	Rainbow trout	347	490		0				
	0114	1	341	Mountain whitefish	308	364	Scales	0	PIT	:000000246973		
	0114	1	342	Mountain whitefish	288	266	Scales	2	FLOY		14555	WHITE
	0114	1	343	Mountain whitefish	192	70	Scales	0				
	0114	1	344	Mountain whitefish	209	102	Scales	0				
	0114	1	345	Mountain whitefish	291	330	Scales	0	PIT	:000000243654		
	0114	1	346	Mountain whitefish	319	346	Scales	2	FLOY		1141	YELLOW
	0114	1	347	Mountain whitefish	288	288	Scales	0	PIT	:000000245984		
	0114	1	348	Mountain whitefish	274	240	Scales	0	PIT	:000000246501		
	0114	1	349	Mountain whitefish	344	376	Scales	0	PIT	:000000246474		
	0114	1	350	Mountain whitefish	269	226	Scales	0	PIT	:000000247173		
	0114	1	351	Mountain whitefish	279	248	Scales	0	PIT	:000000245986		
	0114	1	352	Mountain whitefish	331	440	Scales	0	PIT	:000000244754		
	0114	1	353	Rainbow trout	156	50		0				

Appendix C Table C1. Biological characteristics data for sampled fish, 2008 Peace River Fish Community Indexing Program.

Area and Site Label	Session	FishID	Common Name	Fork Length (mm)	Weight (gm)	Age Structure	Age	Capture Code	Tag			
									Type	Number	Colour	
1												
	0113	1	354	Mountain whitefish	305	288	Scales	2	FLOY	2375	YELLOW	
	0113	1	355	Mountain whitefish	306	292	Scales	2	PIT	4D00027366		
	0113	1	356	Mountain whitefish	326	384	Scales	2	PIT	000000242641		
	0113	1	357	Mountain whitefish	258	238	Scales	0	PIT	000000247131		
	0113	1	358	Mountain whitefish	269	198	Scales	0	PIT	000000245852		
	0113	1	359	Mountain whitefish	188	68	Scales	0				
	0113	1	360	Mountain whitefish	193	80	Scales	0				
	0113	1	361	Mountain whitefish	237	144	Scales	0				
	0113	1	362	Mountain whitefish	337	406	Scales	0	PIT	000000246925		
	0113	1	363	Mountain whitefish	300	302	Scales	2	FLOY	15228	WHITE	
	0113	1	364	Mountain whitefish	338	426	Scales	2	FLOY	6601	YELLOW	
	0113	1	365	Mountain whitefish	276	228	Scales	0	PIT	000000243774		
	0113	1	366	Mountain whitefish	288	298	Scales	0	PIT	000000247060		
	0113	1	367	Mountain whitefish	303	308	Scales	2	PIT	0A00726431		
	0113	1	368	Mountain whitefish	335	454	Scales	0	PIT	000000246852		
	0113	1	369	Mountain whitefish	336	382	Scales	0	PIT	000000247214		
	0113	1	370	Mountain whitefish	245	174	Scales	0				
	0113	1	371	Mountain whitefish	261	198	Scales	3	0	PIT	000000247281	
	0113	1	372	Mountain whitefish	317	318	Scales	0	PIT	000000243409		
	0113	1	373	Mountain whitefish	199	98	Scales	0				
	0113	1	374	Mountain whitefish	336	382	Scales	2	PIT	000000244725		
	0113	1	375	Mountain whitefish	247	180	Scales	0				
	0113	1	376	Mountain whitefish	234	142	Scales	0				
	0113	1	377	Mountain whitefish	252	192	Scales	0	PIT	000000244135		
	0113	1	378	Mountain whitefish	336	454	Scales	5	2	PIT	4D00035160	
	0113	1	379	Mountain whitefish	303	312	Scales	0	PIT	000000245514		
	0113	1	380	Mountain whitefish	318	376	Scales	2	PIT	000000238596		
	0113	1	381	Mountain whitefish	328	322	Scales	0	PIT	000000244234		
	0113	1	382	Mountain whitefish	295	294	Scales	0	PIT	000000246626		
	0113	1	383	Mountain whitefish	264	220	Scales	0	PIT	000000244003		
	0113	1	384	Mountain whitefish	299	224	Scales	2	FLOY	8252	YELLOW	
	0113	1	385	Mountain whitefish	255	202	Scales	0	PIT	000000243723		
	0113	1	386	Mountain whitefish	322	396	Scales	0	PIT	000000246829		
	0113	1	387	Mountain whitefish	303	352	Scales	2	PIT	000000239737		
	0113	1	388	Mountain whitefish	328	312	Scales	2	FLOY	15331	WHITE	
	0113	1	389	Mountain whitefish	295	338	Scales	2	FLOY	14457	WHITE	
	0113	1	390	Mountain whitefish	282	256	Scales	2	PIT	000000243338		
	0113	1	391	Mountain whitefish	207	106	Scales	0				
	0113	1	392	Mountain whitefish	196	104	Scales	0				
	0116	1	393	Mountain whitefish	320	352	Scales	0	PIT	000000243838		
	0116	1	394	Mountain whitefish	281	288	Scales	0	PIT	000000244109		
	0116	1	395	Mountain whitefish	339	372	Scales	6	2	PIT	000000243450	
	0116	1	396	Mountain whitefish	255	222	Scales	0	PIT	000000246594		
	0116	1	397	Mountain whitefish	434	956	Scales	9	0	PIT	000000247022	
	0116	1	398	Mountain whitefish	279	256	Scales	0	PIT	000000245979		
	0116	1	399	Mountain whitefish	256	220	Scales	0	PIT	000000245929		
	0116	1	400	Mountain whitefish	304	322	Scales	2	PIT	4D00026977		
	0116	1	401	Mountain whitefish	304	338	Scales	0	PIT	000000246462		
	0116	1	402	Mountain whitefish	282	278	Scales	0				
	0116	1	403	Mountain whitefish	282	270	Scales	0	PIT	000000246761		
	0116	1	404	Mountain whitefish	295	294	Scales	0	PIT	000000246415		
	0116	1	405	Mountain whitefish	309	310	Scales	0	PIT	000000246471		
	0116	1	406	Mountain whitefish	301	296	Scales	0	PIT	000000247126		
	0116	1	407	Mountain whitefish	292	280	Scales	0	PIT	000000247120		
	0116	1	408	Mountain whitefish	335	398	Scales	0	PIT	000000243713		
	0116	1	409	Mountain whitefish	315	342	Scales	2	PIT	000000246952		
	0116	1	410	Mountain whitefish	239	158	Scales	0				
	0116	1	411	Mountain whitefish	245	174	Scales	0				
	0116	1	412	Mountain whitefish	313	354	Scales	0	PIT	000000246156		
	0116	1	413	Mountain whitefish	201	98	Scales	0				
	0109	1	414	Mountain whitefish	319	356	Scales	2	FLOY	5161	YELLOW	
	0109	1	415	Mountain whitefish	334	366	Scales	0	PIT	000000246991		
	0109	1	416	Mountain whitefish	265	242	Scales	0	PIT	000000246776		
	0109	1	417	Mountain whitefish	339	450	Scales	2	FLOY	4915	YELLOW	

Appendix C Table C1. Biological characteristics data for sampled fish, 2008 Peace River Fish Community Indexing Program.

Area and Site Label	Session	FishID	Common Name	Fork Length (mm)	Weight (gm)	Age Structure	Age	Capture Code	Tag		
									Type	Number	Colour
1											
0109	1	418	Mountain whitefish	256	172	Scales		0	PIT	000000243935	
0109	1	419	Mountain whitefish	293	294	Scales		0	PIT	000000246659	
0109	1	420	Mountain whitefish	276	254	Scales		0	PIT	000000246726	
0109	1	421	Mountain whitefish	226	118	Scales		0			
0109	1	422	Mountain whitefish	269	240	Scales		0	PIT	000000243421	
0109	1	423	Mountain whitefish	325	382	Scales		0	PIT	000000246872	
0109	1	424	Mountain whitefish	338	416	Scales		0	PIT	000000246886	
0109	1	425	Mountain whitefish	333	426	Scales		0	PIT	000000245343	
0109	1	426	Mountain whitefish	311	308	Scales		0	PIT	000000245395	
0109	1	427	Mountain whitefish	394	702	Scales		0	PIT	000000246602	
0109	1	428	Mountain whitefish	354	562	Scales		0			
0109	1	429	Mountain whitefish	288	314	Scales		0	PIT	000000245316	
0109	1	430	Mountain whitefish	299	312	Scales		2	FLOY	14339	WHITE
0109	1	431	Mountain whitefish	282	230	Scales	4	0	PIT	000000245818	
0109	1	432	Mountain whitefish	190	74	Scales		0			
0109	1	433	Mountain whitefish	313	348	Scales		2	FLOY	14335	WHITE
0109	1	434	Mountain whitefish	314	376	Scales		0	PIT	000000246098	
0109	1	435	Mountain whitefish	280	250	Scales		2	PIT	000000246545	
0109	1	436	Mountain whitefish	282	270	Scales		0	PIT	000000245558	
0109	1	437	Mountain whitefish	309	348	Scales		0	PIT	000000247027	
0109	1	438	Mountain whitefish	324	440	Scales		0	PIT	999999997241	
0109	1	439	Mountain whitefish	295	304	Scales		0	PIT	000000246559	
0109	1	440	Mountain whitefish	292	254	Scales		0	PIT	999999996779	
0109	1	441	Mountain whitefish	333	426	Scales		2	FLOY	9691	YELLOW
0109	1	442	Mountain whitefish	312	384	Scales		2	PIT	4D00034709	
0109	1	443	Mountain whitefish	284	292	Scales		2	PIT	000000238527	
0109	1	444	Mountain whitefish	282	294	Scales		2	PIT	0A00725821	
0109	1	445	Mountain whitefish	320	372	Scales		2	PIT	4D00044960	
0109	1	446	Mountain whitefish	299	332	Scales		2	PIT	000000238881	
0109	1	447	Mountain whitefish	273	290	Scales		0	PIT	999999995722	
0109	1	448	Mountain whitefish	323	332	Scales		0	PIT	999999996458	
0109	1	449	Mountain whitefish	308	332	Scales		2	FLOY	13243	WHITE
0109	1	450	Mountain whitefish	334	438	Scales	6	0	PIT	999999993749	
0109	1	451	Mountain whitefish	265	234	Scales	4	0	PIT	999999995853	
0109	1	452	Mountain whitefish	296	302	Scales		0	PIT	999999995404	
0109	1	453	Mountain whitefish	273	236	Scales		0	PIT	999999996174	
0109	1	454	Mountain whitefish	317	336	Scales		2	FLOY	5337	YELLOW
0109	1	455	Mountain whitefish	299	270	Scales		0	PIT	999999995888	
0109	1	456	Mountain whitefish	254	174	Scales		0	PIT	999999996875	
0109	1	457	Mountain whitefish	313	388	Scales	5	0	PIT	999999995880	
0109	1	458	Mountain whitefish	253	184	Scales		0	PIT	999999995657	
0109	1	459	Mountain whitefish	354	502	Scales		0	PIT	999999997266	
0109	1	460	Mountain whitefish	327	420	Scales		2	PIT	000000245135	
0109	1	461	Mountain whitefish	326	366	Scales		0	PIT	999999995501	
0109	1	462	Mountain whitefish	313	380	Scales		2	PIT	000000246961	
0109	1	463	Mountain whitefish	286	286	Scales		0	PIT	999999997221	
0109	1	464	Mountain whitefish	257	194	Scales		0	PIT	999999996912	
0109	1	465	Mountain whitefish	277	250	Scales		0	PIT	999999995785	
0109	1	466	Mountain whitefish	309	324	Scales		2	FLOY	14278	WHITE
0109	1	467	Mountain whitefish	297	334	Scales		0	PIT	999999995544	
0109	1	468	Mountain whitefish	285	290	Scales	5	0	PIT	999999993897	
0109	1	469	Mountain whitefish	341	440	Scales		0	PIT	999999995198	
0109	1	470	Mountain whitefish	313	332	Scales		2	FLOY	6716	YELLOW
0109	1	471	Mountain whitefish	292	332	Scales	5	0	PIT	999999995880	
0109	1	472	Mountain whitefish	264	232	Scales		0	PIT	999999995928	
0109	1	473	Mountain whitefish	305	348	Scales		2	PIT	0A00746641	
0109	1	474	Mountain whitefish	332	418	Scales		0	PIT	999999997234	
0109	1	475	Mountain whitefish	187	82	Scales		0			
0109	1	476	Mountain whitefish	296	288	Scales		0			
0109	1	477	Mountain whitefish	356	488	Scales		0	PIT	999999995923	
0109	1	478	Mountain whitefish	319	406	Scales		0	PIT	999999995686	
0109	1	479	Mountain whitefish	271	250	Scales		2	PIT	000000242888	
0108	1	480	Mountain whitefish	352	416	Scales		0	PIT	000000245992	
0108	1	481	Mountain whitefish	300	352	Scales		0	PIT	000000245903	

Appendix C Table C1. Biological characteristics data for sampled fish, 2008 Peace River Fish Community Indexing Program.

Area and Site Label	Session	FishID	Common Name	Fork Length (mm)	Weight (gm)	Age Structure	Age	Capture Code	Tag		
									Type	Number	Colour
1											
0108	1	482	Mountain whitefish	225	114	Scales		0			
0108	1	483	Mountain whitefish	219	106	Scales		0			
0108	1	484	Mountain whitefish	312	344	Scales		0	PIT	:000000246610	
0104	1	485	Mountain whitefish	266	276	Scales		0			
0104	1	486	Mountain whitefish	394	794	Scales		5	PIT	:000000246419	
0104	1	487	Mountain whitefish	322	404	Scales		2	FLOY	9401	YELLOW
0104	1	488	Mountain whitefish	272	274	Scales		0			
0104	1	489	Mountain whitefish	279	280	Scales		0	PIT	:000000246380	
0104	1	490	Mountain whitefish	311	358	Scales		0	PIT	:000000246238	
0104	1	491	Mountain whitefish	242	168	Scales		0			
0104	1	492	Mountain whitefish	214	114	Scales		0			
0104	1	493	Mountain whitefish	335	410	Scales		0	PIT	:000000246729	
0104	1	494	Mountain whitefish	293	292	Scales	4	2	PIT	4D00030648	
0104	1	495	Mountain whitefish	291	304	Scales		0	PIT	:000000247108	
0104	1	496	Mountain whitefish	287	270	Scales		2	PIT	0A00727544	
0104	1	497	Mountain whitefish	278	282	Scales		0	PIT	:000000245832	
0104	1	498	Mountain whitefish	323	370	Scales		0	PIT	:000000245794	
0104	1	499	Mountain whitefish	272	260	Scales		0	PIT	:000000245363	
0104	1	500	Mountain whitefish	268	250	Scales		0	PIT	:000000245422	
0104	1	501	Mountain whitefish	264	246	Scales		0	PIT	:000000246768	
0104	1	502	Mountain whitefish	236	170	Scales		0			
0104	1	503	Mountain whitefish	314	358	Scales		0	PIT	:000000246592	
0104	1	504	Mountain whitefish	330	390	Scales		0	PIT	:000000246034	
0104	1	505	Mountain whitefish	369	552	Scales		0			
0104	1	506	Mountain whitefish	288	312	Scales		0	PIT	:000000246803	
0104	1	507	Mountain whitefish	317	400	Scales		0			
0104	1	508	Mountain whitefish	344	390	Scales		2	PIT	:000000244137	
0104	1	509	Mountain whitefish	307	342	Scales		0	PIT	:000000246414	
0104	1	510	Mountain whitefish	293	294	Scales	4	0	PIT	:000000247226	
0104	1	511	Mountain whitefish	254	188	Scales		0	PIT	:000000247262	
0104	1	512	Mountain whitefish	307	332	Scales		0	PIT	:000000247114	
0104	1	513	Mountain whitefish	277	300	Scales		0	PIT	:000000243517	
0104	1	514	Mountain whitefish	328	366	Scales		2	FLOY	6016	YELLOW
0104	1	515	Mountain whitefish	269	236	Scales		0	PIT	:000000246536	
0104	1	516	Mountain whitefish	270	256	Scales	4	0	PIT	:000000247286	
0104	1	517	Mountain whitefish	211	104	Scales		0			
0104	1	518	Mountain whitefish	345	510	Scales		0	PIT	:000000246898	
0104	1	519	Mountain whitefish	253	200	Scales		0	PIT	:000000244326	
0104	1	520	Mountain whitefish	269	226	Scales		0	PIT	:000000245380	
0104	1	521	Mountain whitefish	274	254	Scales		0	PIT	:000000246368	
0104	1	522	Mountain whitefish	251	176	Scales		0	PIT	:000000246055	
0104	1	523	Mountain whitefish	194	80	Scales		0			
0104	1	524	Mountain whitefish	246	186	Scales		0			
0104	1	525	Mountain whitefish	227	142	Scales		0			
0104	1	526	Mountain whitefish	259	200	Scales		0	PIT	:000000246242	
0104	1	527	Mountain whitefish	292	312	Scales		0	PIT	:000000246883	
0104	1	528	Mountain whitefish	275	254	Scales		0	PIT	:000000244644	
0104	1	529	Mountain whitefish	257	210	Scales		0	PIT	:000000246804	
0104	1	530	Mountain whitefish	257	214	Scales		0	PIT	:000000246313	
0104	1	531	Mountain whitefish	199	80	Scales		0			
0103	1	532	Mountain whitefish	332	340	Scales		2	FLOY	11763	WHITE
0103	1	533	Mountain whitefish	268	240	Scales		0	PIT	:000000246934	
0103	1	534	Mountain whitefish	301	298	Scales		0	PIT	:000000246795	
0103	1	535	Mountain whitefish	290	256	Scales		0	PIT	:000000246207	
0103	1	536	Mountain whitefish	249	186	Scales		0			
0103	1	537	Mountain whitefish	217	108	Scales	2	0			
0103	1	538	Mountain whitefish	188	84	Scales		0			
0103	1	539	Mountain whitefish	251	182	Scales		0	PIT	:000000245433	
0103	1	540	Mountain whitefish	289	310	Scales		0	PIT	:000000245301	
0103	1	541	Mountain whitefish	306	365	Scales		0	PIT	:000000245744	
0103	1	542	Mountain whitefish	205	92	Scales		0			
0103	1	543	Rainbow trout	192	104	Scales		0			
0103	1	544	Mountain whitefish	193	80	Scales		0			
0103	1	545	Mountain whitefish	204	98	Scales		0			

Appendix C Table C1. Biological characteristics data for sampled fish, 2008 Peace River Fish Community Indexing Program.

Area and Site Label	Session	FishID	Common Name	Fork Length (mm)	Weight (gm)	Age Structure	Age	Capture Code	Tag			
									Type	Number	Colour	
1	0103	1	546	Bull trout	377	612	Fin Ray	5	0	PIT	:000000243802	
	0103	1	547	Mountain whitefish	327	406	Scales		2	PIT	:000000241494	
	0103	1	548	Mountain whitefish	346	462	Scales		2	FLOY	9452	YELLOW
	0103	1	549	Mountain whitefish	208	104	Scales		0			
	0103	1	550	Mountain whitefish	202	94	Scales		0			
	0103	1	551	Mountain whitefish	285	328	Scales		0			
	0103	1	552	Mountain whitefish	299	322	Scales		2	FLOY	7955	YELLOW
	0103	1	553	Mountain whitefish	200	88	Scales		0			
	0103	1	554	Mountain whitefish	191	84	Scales		0			
	0103	1	555	Rainbow trout	176	60			0			
	0103	1	556	Mountain whitefish	279	304	Scales		0			
	0103	1	557	Mountain whitefish	298	324	Scales		0	PIT	:000000246861	
	0103	1	558	Mountain whitefish	265	250	Scales		0	PIT	:000000245619	
	0103	1	559	Mountain whitefish	279	258	Scales		2	PIT	:000000245363	
	0103	1	560	Mountain whitefish	256	196	Scales		0	PIT	:000000246036	
	0103	1	561	Mountain whitefish	321	418	Scales	5	2	PIT	4D00032335	
	0103	1	562	Mountain whitefish	258	216	Scales	3	0	PIT	:000000246479	
	0103	1	563	Mountain whitefish	203	90	Scales		0			
	0103	1	564	Mountain whitefish	191	80	Scales		0			
	0103	1	565	Mountain whitefish	325	434	Scales		0	PIT	:000000243467	
	0103	1	566	Mountain whitefish	270	262	Scales		0	PIT	:000000243447	
	0103	1	567	Mountain whitefish	282	252	Scales		0	PIT	:000000245408	
	0103	1	568	Mountain whitefish	261	202	Scales		0	PIT	:000000245671	
	0103	1	569	Mountain whitefish	370	552	Scales		0			
	0103	1	570	Mountain whitefish	399	552	Scales		0	PIT	:000000246605	
	0103	1	571	Mountain whitefish	236	160	Scales		0			
	0103	1	572	Mountain whitefish	194	86	Scales		0			
	0103	1	573	Mountain whitefish	186	78	Scales		0			
	0103	1	574	Mountain whitefish	189	82	Scales		0			
	0103	1	575	Mountain whitefish	211	102	Scales		0			
	0103	1	576	Mountain whitefish	216	110	Scales		0			
	0103	1	577	Mountain whitefish	199	106	Scales		0			
	0103	1	578	Mountain whitefish	197	84	Scales		0			
	0103	1	579	Mountain whitefish	267	254	Scales		2	PIT	:000000246768	
	0103	1	580	Mountain whitefish	258	234	Scales	4	0	PIT	:000000245339	
	0103	1	581	Mountain whitefish	266	240	Scales		0	PIT	:000000245605	
	0103	1	582	Mountain whitefish	249	206	Scales		0			
	0103	1	583	Mountain whitefish	227	150	Scales	2	0			
	0103	1	584	Mountain whitefish	255	202	Scales		0	PIT	:000000246734	
	0103	1	585	Mountain whitefish	200	90	Scales		0			
	0103	1	586	Mountain whitefish	199	94	Scales	2	0			
	0103	1	587	Mountain whitefish	185	70	Scales		0			
	0103	1	588	Mountain whitefish	189	72	Scales	2	0			
	0103	1	589	Mountain whitefish	275	288	Scales		0	PIT	:000000243780	
	0103	1	590	Mountain whitefish	324	368	Scales		2	PIT	:000000245794	
	0105	1	591	Rainbow trout	266	236			0			
	0105	1	592	Mountain whitefish	292	288	Scales		0	PIT	:000000247204	
	0105	1	593	Mountain whitefish	285	266	Scales		0	PIT	:000000247123	
	0105	1	594	Mountain whitefish	260	226	Scales	3	0	PIT	:000000247107	
	0105	1	595	Mountain whitefish	279	240	Scales		2	PIT	:000000239453	
	0105	1	596	Mountain whitefish	310	342	Scales		2	PIT	0A00736429	
	0105	1	597	Mountain whitefish	240	158	Scales		0			
	0105	1	598	Mountain whitefish	203	92	Scales		0			
	0105	1	599	Mountain whitefish	185	80	Scales		0			
	0105	1	600	Mountain whitefish	192	74	Scales		0			
	0105	1	601	Mountain whitefish	342	386	Scales		0	PIT	:000000245444	
	0105	1	602	Mountain whitefish	321	370	Scales		2	FLOY	13039	WHITE
	0105	1	603	Mountain whitefish	274	216	Scales		0	PIT	:000000246495	
	0105	1	604	Mountain whitefish	218	132	Scales		0			
	0105	1	605	Mountain whitefish	255	194	Scales		0	PIT	:000000245560	
	0105	1	606	Mountain whitefish	326	340	Scales		2	FLOY	7972	YELLOW
	0105	1	607	Mountain whitefish	294	298	Scales	4	0	PIT	:000000247103	
	0105	1	608	Mountain whitefish	358	528	Scales		0	PIT	:000000246919	
	0105	1	609	Mountain whitefish	270	210	Scales		0	PIT	:000000247166	

Appendix C Table C1. Biological characteristics data for sampled fish, 2008 Peace River Fish Community Indexing Program.

Area and Site Label	Session	FishID	Common Name	Fork Length (mm)	Weight (gm)	Age Structure	Age	Capture Code	Tag			
									Type	Number	Colour	
1												
	0105	1	610	Mountain whitefish	255	240	Scales	0				
	0105	1	611	Mountain whitefish	235	134	Scales	0				
	0105	1	612	Mountain whitefish	213	118	Scales	0				
	0105	1	613	Mountain whitefish	228	136	Scales	0				
	0105	1	614	Mountain whitefish	320	300	Scales	5	0	PIT	:000000245481	
	0105	1	615	Mountain whitefish	266	254	Scales	0	0	PIT	:000000245710	
	0105	1	616	Mountain whitefish	255	210	Scales	0	0			
	0105	1	617	Mountain whitefish	256	200	Scales	0	0	PIT	:000000247050	
	0105	1	618	Mountain whitefish	211	118	Scales	0	0			
	0105	1	619	Mountain whitefish	275	288	Scales	5	0	PIT	:000000246628	
	0105	1	620	Mountain whitefish	259	226	Scales	3	0	PIT	:000000245326	
	0105	1	621	Mountain whitefish	188	70	Scales	0	0			
	0105	1	622	Mountain whitefish	328	372	Scales	0	2	PIT	0A00726006	
	0105	1	623	Mountain whitefish	284	298	Scales	5	0	PIT	:000000246523	
	0105	1	624	Mountain whitefish	195	90	Scales	0	0			
	0105	1	625	Mountain whitefish	328	352	Scales	0	0	PIT	:000000246387	
	0105	1	626	Mountain whitefish	256	220	Scales	3	0	PIT	:000000246845	
	0105	1	627	Mountain whitefish	254	224	Scales	0	0	PIT	:000000246134	
	0105	1	628	Mountain whitefish	250	188	Scales	0	0	PIT	:000000246483	
	0105	1	629	Mountain whitefish	245	176	Scales	0	0			
	0105	1	630	Mountain whitefish	218	132	Scales	0	0			
	0101	1	631	Mountain whitefish	303	326	Scales	0	0	PIT	:000000246069	
	0101	1	632	Mountain whitefish	307	380	Scales	2	2	PIT	0A00710711	
	0101	1	633	Mountain whitefish	297	330	Scales	0	0	PIT	:000000246503	
	0101	1	634	Mountain whitefish	283	274	Scales	0	0	PIT	:000000246679	
	0101	1	635	Mountain whitefish	328	494	Scales	0	0	PIT	:000000246533	
	0101	1	636	Mountain whitefish	278	246	Scales	0	0	PIT	:000000247100	
	0101	1	637	Mountain whitefish	307	366	Scales	0	0	PIT	:000000246571	
	0101	1	638	Mountain whitefish	261	194	Scales	0	0	PIT	:000000245356	
	0101	1	639	Mountain whitefish	255	236	Scales	0	0	PIT	:000000246304	
	0101	1	640	Mountain whitefish	304	338	Scales	2	2	PIT	:000000245345	
	0101	1	641	Mountain whitefish	319	374	Scales	2	2	FLOY	15378	WHITE
	0101	1	642	Mountain whitefish	308	320	Scales	0	0	PIT	:000000246433	
	0101	1	643	Mountain whitefish	286	290	Scales	0	0	PIT	:000000246662	
	0101	1	644	Mountain whitefish	321	382	Scales	7	2	PIT	:000000239754	
	0101	1	645	Mountain whitefish	293	318	Scales	2	2	PIT	4D00020874	
	0101	1	646	Mountain whitefish	286	296	Scales	5	2	PIT	:000000239246	
	0101	1	647	Mountain whitefish	265	212	Scales	0	0	PIT	:000000246855	
	0101	1	648	Mountain whitefish	287	288	Scales	0	0	PIT	:000000245603	
	0101	1	649	Mountain whitefish	253	178	Scales	0	0	PIT	:000000246828	
	0101	1	650	Mountain whitefish	354	444	Scales	2	2	FLOY	2015	YELLOW
	0101	1	651	Mountain whitefish	308	362	Scales	2	2	PIT	:000000237876	
	0101	1	652	Mountain whitefish	278	270	Scales	0	0	PIT	:000000246783	
	0101	1	653	Mountain whitefish	335	432	Scales	2	2	FLOY	9544	YELLOW
	0101	1	654	Mountain whitefish	262	270	Scales	0	0	PIT	:000000246305	
	0101	1	655	Mountain whitefish	270	246	Scales	0	0	PIT	:000000245945	
	0101	1	656	Mountain whitefish	285	274	Scales	0	0	PIT	:000000247227	
	0101	1	657	Mountain whitefish	306	356	Scales	0	0	PIT	:000000245587	
	0101	1	658	Mountain whitefish	311	402	Scales	0	0	PIT	:000000243491	
	0101	1	659	Mountain whitefish	286	278	Scales	0	0	PIT	:000000243510	
	0101	1	660	Mountain whitefish	274	250	Scales	0	0	PIT	:000000247041	
	0101	1	661	Mountain whitefish	276	244	Scales	2	2	PIT	:000000243082	
	0101	1	662	Mountain whitefish	279	324	Scales	4	0	PIT	:000000245706	
	0101	1	663	Mountain whitefish	274	264	Scales	0	0	PIT	:000000247012	
	0101	1	664	Mountain whitefish	290	324	Scales	0	0	PIT	:000000246369	
	0101	1	665	Mountain whitefish	259	220	Scales	0	0	PIT	:000000246808	
	0101	1	666	Mountain whitefish	273	250	Scales	0	0	PIT	:000000246394	
	0101	1	667	Mountain whitefish	269	242	Scales	4	0	PIT	:000000247083	
	0101	1	668	Mountain whitefish	292	314	Scales	2	2	PIT	:000000239594	
	0101	1	669	Mountain whitefish	304	372	Scales	0	0			
	0101	1	670	Mountain whitefish	314	350	Scales	0	0	PIT	:000000246871	
	0101	1	671	Mountain whitefish	274	256	Scales	0	0	PIT	:000000244841	
	0101	1	672	Mountain whitefish	313	376	Scales	4	0	PIT	:000000246181	
	0101	1	673	Mountain whitefish	311	376	Scales	2	2	PIT	:000000239408	

Appendix C Table C1. Biological characteristics data for sampled fish, 2008 Peace River Fish Community Indexing Program.

Area and Site Label	Session	FishID	Common Name	Fork Length (mm)	Weight (gm)	Age Structure	Age	Capture Code	Tag		
									Type	Number	Colour
1											
	0101	1	674	Mountain whitefish	296	318	Scales	0	PIT		:000000245964
	0101	1	675	Mountain whitefish	289	274	Scales	2	PIT		:000000242752
	0101	1	676	Mountain whitefish	338	396	Scales	0	PIT		:000000246672
	0101	1	677	Mountain whitefish	273	244	Scales	4	0	PIT	:000000245985
	0101	1	678	Mountain whitefish	275	258	Scales	0	PIT		:000000245465
	0101	1	679	Mountain whitefish	300	368	Scales	0	PIT		:000000245663
	0101	1	680	Mountain whitefish	309	352	Scales	0	PIT		:000000245892
	0101	1	681	Mountain whitefish	312	376	Scales	0	PIT		:000000247135
	0101	1	682	Mountain whitefish	293	346	Scales	6	0	PIT	:000000246528
	0101	1	683	Mountain whitefish	265	236	Scales	0	PIT		:000000245483
	0101	1	684	Mountain whitefish	293	314	Scales	0	PIT		:000000247284
	0101	1	685	Mountain whitefish	303	342	Scales	2	PIT		:000000244856
	0101	1	686	Mountain whitefish	301	348	Scales	2	FLOY	9622	YELLOW
	0101	1	687	Mountain whitefish	354	516	Scales	0	PIT		:000000247007
	0101	1	688	Mountain whitefish	368	500	Scales	2	PIT		:000000244279
	0101	1	689	Mountain whitefish	230	142	Scales	0			
	0101	1	690	Mountain whitefish	282	270	Scales	2	PIT		:000000239133
	0101	1	691	Mountain whitefish	301	352	Scales	0	PIT		:000000246130
	0101	1	692	Mountain whitefish	268	264	Scales	4	0	PIT	:000000247253
	0101	1	693	Mountain whitefish	275	260	Scales	0	PIT		:000000246407
	0101	1	694	Mountain whitefish	304	342	Scales	0	PIT		:000000246508
	0101	1	695	Mountain whitefish	304	340	Scales	0	PIT		:000000246184
	0101	1	696	Mountain whitefish	271	244	Scales	0	PIT		:000000247046
	0101	1	697	Mountain whitefish	258	208	Scales	0	PIT		:000000246229
	0101	1	698	Mountain whitefish	214	114	Scales	0			
	0101	1	699	Mountain whitefish	289	342	Scales	3	PIT		:000000241834
	0101	1	700	Mountain whitefish	320	416	Scales	0	PIT		:000000245655
	0101	1	701	Mountain whitefish	280	294	Scales	0	PIT		:000000246667
	0101	1	702	Mountain whitefish	247	186	Scales	0			
	0101	1	703	Mountain whitefish	300	400	Scales	5	0		
	0101	1	704	Mountain whitefish	360	538	Scales	0	PIT		:000000245439
	0101	1	705	Mountain whitefish	278	296	Scales	0	PIT		:000000247238
	0101	1	706	Mountain whitefish	292	334	Scales	2	PIT		:000000238017
	0101	1	707	Mountain whitefish	268	230	Scales	0	PIT		:000000243860
	0101	1	708	Mountain whitefish	298	328	Scales	5	0	PIT	:000000247112
	0101	1	709	Mountain whitefish	267	268	Scales	0	PIT		:000000246244
	0102	1	710	Mountain whitefish	316	386	Scales	2	FLOY	15982	WHITE
	0102	1	711	Mountain whitefish	303	312	Scales	0	PIT		:000000246482
	0102	1	712	Mountain whitefish	355	484	Scales	2	PIT		:000000245086
	0102	1	713	Mountain whitefish	333	408	Scales	2	PIT	4D00032545	
	0102	1	714	Mountain whitefish	285	316	Scales	0	PIT		:000000246341
	0102	1	715	Mountain whitefish	300	374	Scales	0	PIT		:000000245756
	0102	1	716	Mountain whitefish	294	316	Scales	0	PIT		:000000246823
	0102	1	717	Mountain whitefish	291	270	Scales	0	PIT		:000000246741
	0102	1	718	Mountain whitefish	295	316	Scales	2	PIT		:000000244581
	0102	1	719	Mountain whitefish	305	332	Scales	0	PIT		:000000246475
	0102	1	720	Mountain whitefish	247	192	Scales	0			
	0102	1	721	Mountain whitefish	261	216	Scales	0	PIT		:000000246933
	0102	1	722	Mountain whitefish	259	220	Scales	0	PIT		:000000245802
	0102	1	723	Mountain whitefish	267	266	Scales	4	0	PIT	:000000247248
	0102	1	724	Mountain whitefish	278	250	Scales	2	PIT		:000000246613
	0102	1	725	Mountain whitefish	201	104	Scales	0			
	0102	1	726	Mountain whitefish	310	328	Scales	2	FLOY	9590	YELLOW
	0102	1	727	Mountain whitefish	295	308	Scales	0	PIT		:000000246486
	0102	1	728	Mountain whitefish	320	362	Scales	2	PIT		:000000242056
	0102	1	729	Mountain whitefish	258	174	Scales	0	PIT		:000000247088
	0102	1	730	Mountain whitefish	260	230	Scales	0	PIT		:000000246695
	0102	1	731	Mountain whitefish	270	226	Scales	0	PIT		:000000247143
	0102	1	732	Mountain whitefish	185	68	Scales	0			
	0102	1	733	Mountain whitefish	279	260	Scales	0	PIT		:000000246336
	0102	1	734	Mountain whitefish	365	612	Scales	0	PIT		:000000246015
	0102	1	735	Mountain whitefish	206	102	Scales	0			
	0102	1	736	Mountain whitefish	280	272	Scales	0	PIT		:000000246300
	0102	1	737	Mountain whitefish	201	104	Scales	0			

Appendix C Table C1. Biological characteristics data for sampled fish, 2008 Peace River Fish Community Indexing Program.

Area and Site Label	Session	FishID	Common Name	Fork Length (mm)	Weight (gm)	Age Structure	Age	Capture Code	Tag			
									Type	Number	Colour	
1												
	0102	1	738	Mountain whitefish	379	646	Scales	0	PIT		:000000246315	
	0102	1	739	Mountain whitefish	318	424	Scales	0	PIT		:000000246168	
	0102	1	740	Mountain whitefish	265	242	Scales	4	0	PIT	:000000246568	
	0102	1	741	Mountain whitefish	312	374	Scales	0	PIT		:000000246713	
	0102	1	742	Mountain whitefish	222	126	Scales	0				
	0102	1	743	Mountain whitefish	346	316	Scales	2	FLOY		5904	YELLOW
	0102	1	744	Mountain whitefish	268	230	Scales	0	PIT		:000000247055	
	0102	1	745	Mountain whitefish	275	260	Scales	2	PIT		:000000245347	
	0102	1	746	Mountain whitefish	310	434	Scales	0	PIT		:000000245574	
	0102	1	747	Mountain whitefish	275	262	Scales	0	PIT		:000000245413	
	0102	1	748	Mountain whitefish	205	106	Scales	0				
	0102	1	749	Mountain whitefish	199	94	Scales	0				
	0102	1	750	Mountain whitefish	212	104	Scales	0				
	0102	1	751	Mountain whitefish	207	100	Scales	2	0			
	0102	1	752	Mountain whitefish	278	284	Scales	0	PIT		:000000246043	
	0102	1	753	Mountain whitefish	333	432	Scales	2	FLOY		7760	YELLOW
	0102	1	754	Mountain whitefish	286	332	Scales	0	PIT		:000000246430	
	0102	1	755	Mountain whitefish	333	404	Scales	0	PIT		:000000247098	
	0102	1	756	Mountain whitefish	208	100	Scales	0				
	0102	1	757	Mountain whitefish	347	422	Scales	0	PIT		:000000246615	
	0102	1	758	Mountain whitefish	319	408	Scales	0	PIT		:000000246317	
	0102	1	759	Mountain whitefish	270	152	Scales	0	PIT		:000000247078	
	0102	1	760	Mountain whitefish	279	270	Scales	2	FLOY		15393	WHITE
	0102	1	761	Mountain whitefish	315	364	Scales	0	PIT		:000000246481	
	0102	1	762	Mountain whitefish	281	270	Scales	2	PIT		:000000244427	
	0102	1	763	Mountain whitefish	319	426	Scales	0	PIT		:000000246205	
	0102	1	764	Mountain whitefish	322	430	Scales	0	PIT		:000000246016	
	0102	1	765	Mountain whitefish	295	320	Scales	6	2	PIT	:000000238807	
	0102	1	766	Mountain whitefish	323	390	Scales	2	FLOY		14188	WHITE
	0102	1	767	Mountain whitefish	294	328	Scales	0	PIT		:000000245693	
	0102	1	768	Mountain whitefish	320	424	Scales	0	PIT		:000000247290	
	0102	1	769	Mountain whitefish	336	410	Scales	6	0	PIT	:000000247282	
	0102	1	770	Mountain whitefish	335	400	Scales	2	PIT		:000000244165	
	0102	1	771	Mountain whitefish	343	494	Scales	0	PIT		:000000246846	
	0102	1	772	Mountain whitefish	207	110	Scales	0				
	0102	1	773	Mountain whitefish	248	180	Scales	0				
	0102	1	774	Mountain whitefish	225	118	Scales	0				
	0102	1	775	Mountain whitefish	278	218	Scales	0	PIT		:000000245338	
	0102	1	776	Mountain whitefish	269	266	Scales	4	0	PIT	:000000246484	
	0102	1	777	Mountain whitefish	343	380	Scales	2	PIT		:000000246756	
	0102	1	778	Mountain whitefish	270	252	Scales	0	PIT		:000000246684	
	0102	1	779	Mountain whitefish	257	162	Scales	0	PIT		:000000246128	
	0102	1	780	Mountain whitefish	204	100	Scales	0				
	0102	1	781	Mountain whitefish	262	250	Scales	0	PIT		:000000246507	
	0102	1	782	Mountain whitefish	284	308	Scales	4	0	PIT	:000000246838	
	0102	1	783	Mountain whitefish	303	312	Scales	2	FLOY		11863	WHITE
	0102	1	784	Mountain whitefish	342	464	Scales	2	PIT		0A00747651	
	0102	1	785	Mountain whitefish	296	302	Scales	0	PIT		:000000246109	
	0102	1	786	Mountain whitefish	265	242	Scales	0	PIT		:000000247000	
	0102	1	787	Mountain whitefish	268	228	Scales	0	PIT		:000000247081	
	0102	1	788	Mountain whitefish	325	396	Scales	2	PIT		0A00726423	
	0102	1	789	Mountain whitefish	283	294	Scales	2	PIT		:000000244560	
	0102	1	790	Mountain whitefish	328	422	Scales	0	PIT		:000000247079	
	0102	1	791	Mountain whitefish	265	224	Scales	0	PIT		:000000245881	
	0102	1	792	Mountain whitefish	250	168	Scales	0	PIT		:000000246743	
	0102	1	793	Mountain whitefish	250	176	Scales	3	0	PIT	:000000243336	
	0102	1	794	Mountain whitefish	183	64	Scales	0				
	0102	1	795	Mountain whitefish	201	84	Scales	0				
	0102	1	796	Mountain whitefish	205	88	Scales	0				
	0102	1	797	Mountain whitefish	210	90	Scales	0				
	0102	1	798	Mountain whitefish	337	408	Scales	2	FLOY		8065	YELLOW
	0102	1	799	Mountain whitefish	349	478	Scales	0	PIT		:000000245915	
	0102	1	800	Mountain whitefish	305	336	Scales	0	PIT		:000000246382	
	0102	1	801	Mountain whitefish	327	356	Scales	7	2	PIT	:000000243687	

Appendix C Table C1. Biological characteristics data for sampled fish, 2008 Peace River Fish Community Indexing Program.

Area and Site Label	Session	FishID	Common Name	Fork Length (mm)	Weight (gm)	Age Structure	Age	Capture Code	Tag		
									Type	Number	Colour
1											
0102	1	802	Mountain whitefish	330	352	Scales		2	FLOY	15432	WHITE
0102	1	803	Mountain whitefish	267	218	Scales		0	PIT	:000000246719	
0102	1	804	Mountain whitefish	297	336	Scales		0	PIT	:000000246248	
0102	1	805	Mountain whitefish	253	220	Scales		0	PIT	:000000247133	
0102	1	806	Mountain whitefish	270	236	Scales		0	PIT	:000000245440	
0102	1	807	Mountain whitefish	196	88	Scales		0			
0102	1	808	Mountain whitefish	348	464	Scales		2	PIT	:000000240675	
0102	1	809	Mountain whitefish	278	254	Scales		0	PIT	:000000247154	
0102	1	810	Mountain whitefish	217	128	Scales		1			
0102	1	811	Mountain whitefish	281	258	Scales		0	PIT	:000000246526	
0102	1	812	Mountain whitefish	247	196	Scales		0			
0110	1	1665	Bull trout	319	338	Fin Ray	3	0	PIT	:000000247490	
0108	2	2935	Largescale sucker	486	1594			0			
0108	2	2936	Mountain whitefish	415	746	Scales	7	0	PIT	:000000247562	
0108	2	2937	Mountain whitefish	470	1392	Scales		0	PIT	:000000247634	
0108	2	2938	Mountain whitefish	320	374	Scales		0	PIT	:000000248151	
0108	2	2939	Mountain whitefish	330	380	Scales		0	PIT	:000000247489	
0108	2	2940	Mountain whitefish	337	430	Scales		0	PIT	:000000248180	
0108	2	2941	Mountain whitefish	266	230	Scales		0	PIT	:000000247773	
0108	2	2942	Mountain whitefish	342	442	Scales		2	PIT	:000000244684	
0108	2	2943	Mountain whitefish	305	328	Scales		0			
0108	2	2944	Mountain whitefish	308	338	Scales		5	PIT	:000000248042	
0108	2	2945	Mountain whitefish	314	386	Scales		0	PIT	:000000248304	
0108	2	2946	Mountain whitefish	322	366	Scales		0	PIT	:000000247786	
0108	2	2947	Mountain whitefish	275	250	Scales		0			
0108	2	2948	Mountain whitefish	316	376	Scales		0	PIT	:000000247517	
0108	2	2949	Mountain whitefish	407	738	Scales		2	PIT	:000000238888	
0108	2	2950	Mountain whitefish	382	644	Scales		0	PIT	:000000247661	
0108	2	2951	Mountain whitefish	375	556	Scales		0	PIT	:000000247818	
0108	2	2952	Mountain whitefish	341	468	Scales		0	PIT	:000000248194	
0108	2	2953	Mountain whitefish	293	316	Scales		0	PIT	:000000247382	
0108	2	2954	Mountain whitefish	334	350	Scales		0	PIT	:000000246796	
0108	2	2955	Mountain whitefish	335	434	Scales		0	PIT	:000000247823	
0108	2	2956	Mountain whitefish	360	418	Scales		0	PIT	:000000247350	
0108	2	2957	Mountain whitefish	289	298	Scales		0	PIT	:000000248204	
0108	2	2958	Mountain whitefish	293	300	Scales		0			
0108	2	2959	Mountain whitefish	337	424	Scales		0	PIT	:000000247976	
0108	2	2960	Mountain whitefish	310	352	Scales		0	PIT	:000000248214	
0108	2	2961	Mountain whitefish	347	430	Scales		0	PIT	:000000246555	
0108	2	2962	Mountain whitefish	314	366	Scales		0	PIT	:000000248262	
0108	2	2963	Mountain whitefish	312	308	Scales		0	PIT	:000000248067	
0108	2	2964	Mountain whitefish	361	430	Scales		5	PIT	:000000247594	
0108	2	2965	Mountain whitefish	315	366	Scales		2	PIT	4D00035951	
0108	2	2966	Mountain whitefish	262	204	Scales		0	PIT	:000000248001	
0108	2	2967	Mountain whitefish	381	580	Scales		2	PIT	:000000242984	
0108	2	2968	Mountain whitefish	314	350	Scales		0	PIT	:000000247760	
0108	2	2969	Mountain whitefish	322	322	Scales		0	PIT	:000000247535	
0108	2	2970	Mountain whitefish	230	146	Scales		0			
0108	2	2971	Mountain whitefish	278	242	Scales		0	PIT	:000000248139	
0108	2	2972	Mountain whitefish	278	236	Scales		0	PIT	:000000245720	
0108	2	2973	Mountain whitefish	257	220	Scales		0	PIT	:000000248282	
0108	2	2974	Mountain whitefish	305	294	Scales		2	FLOY	15088	WHITE
0108	2	2975	Mountain whitefish	273	218	Scales		0	PIT	:000000248290	
0108	2	2976	Mountain whitefish	298	284	Scales		2	FLOY	14254	WHITE
0108	2	2977	Mountain whitefish	279	286	Scales		0	PIT	:000000247582	
0108	2	2978	Mountain whitefish	282	252	Scales		0	PIT	:000000247579	
0108	2	2979	Mountain whitefish	353	468	Scales		0	PIT	:000000247948	
0108	2	2980	Mountain whitefish	312	342	Scales		0	PIT	:000000248122	
0108	2	2981	Mountain whitefish	340	352	Scales		0	PIT	:000000248044	
0108	2	2982	Mountain whitefish	341	412	Scales		0	PIT	:000000247437	
0108	2	2983	Mountain whitefish	268	224	Scales		0	PIT	:000000246664	
0108	2	2984	Mountain whitefish	277	256	Scales		0	PIT	:000000247991	
0107	2	2985	Mountain whitefish	293	302	Scales		0	PIT	:000000247783	
0107	2	2986	Rainbow trout	396	640			0			

Appendix C Table C1. Biological characteristics data for sampled fish, 2008 Peace River Fish Community Indexing Program.

Area and Site Label	Session	FishID	Common Name	Fork Length (mm)	Weight (gm)	Age Structure	Age	Capture Code	Tag		
									Type	Number	Colour
1											
	0107	2	2987	Mountain whitefish	248	202	Scales	0			
	0107	2	2988	Mountain whitefish	316	330	Scales	2	PIT	000000239153	
	0107	2	2989	Mountain whitefish	330	438	Scales	0	PIT	000000247702	
	0107	2	2990	Mountain whitefish	278	268	Scales	0	PIT	000000247687	
	0107	2	2991	Mountain whitefish	253	188	Scales	0	PIT	000000247615	
	0107	2	2992	Mountain whitefish	290	282	Scales	0	PIT	000000248160	
	0107	2	2993	Mountain whitefish	219	118	Scales	0			
	0107	2	2994	Mountain whitefish	207	98	Scales	0			
	0107	2	2995	Mountain whitefish	262	202	Scales	0	PIT	000000247913	
	0107	2	2996	Mountain whitefish	187	80	Scales	0			
	0107	2	2997	Mountain whitefish	190	74	Scales	0			
	0107	2	2998	Kokanee	113	12		0			
	0103	2	2999	Mountain whitefish	339		Scales	0			
	0103	2	3000	Mountain whitefish	249	198	Scales	0			
	0103	2	3001	Mountain whitefish	299	322	Scales	2	PIT	000000242134	
	0103	2	3002	Kokanee	191	70		0			
	0103	2	3003	Mountain whitefish	334	446	Scales	2	FLOY	5001	YELLOW
	0103	2	3004	Mountain whitefish	296	314	Scales	2	FLOY	2039	YELLOW
	0103	2	3005	Rainbow trout	295	288		0			
	0103	2	3006	Mountain whitefish	250	214	Scales	0	PIT	000000248268	
	0103	2	3007	Mountain whitefish	261	226	Scales	0			
	0103	2	3008	Mountain whitefish	314	382	Scales	0	PIT	000000247970	
	0103	2	3009	Mountain whitefish	200	80	Scales	0			
	0103	2	3010	Mountain whitefish	306	340	Scales	2	FLOY	7938	YELLOW
	0103	2	3011	Mountain whitefish	288	278	Scales	0	PIT	000000248023	
	0103	2	3012	Mountain whitefish	262	212	Scales	0	PIT	000000248011	
	0103	2	3013	Mountain whitefish	308	384	Scales	5	PIT	000000247492	
	0103	2	3014	Mountain whitefish	240	178	Scales	0			
	0103	2	3015	Mountain whitefish	199	106	Scales	0			
	0103	2	3016	Mountain whitefish	221	124	Scales	0			
	0103	2	3017	Mountain whitefish	219	126	Scales	0			
	0103	2	3018	Mountain whitefish	214	110	Scales	0			
	0103	2	3019	Mountain whitefish	208	104	Scales	0			
	0103	2	3020	Kokanee	238	152		0			
	0103	2	3021	Mountain whitefish	328	376	Scales	0			
	0103	2	3022	Mountain whitefish	310	290	Scales	2	PIT	000000239551	
	0103	2	3023	Rainbow trout	132	28		0			
	0103	2	3024	Rainbow trout	200	90		0			
	0103	2	3025	Mountain whitefish	272	250	Scales	0	PIT	000000248185	
	0103	2	3026	Mountain whitefish	245	210	Scales	0			
	0103	2	3027	Mountain whitefish	255	186	Scales	0	PIT	000000247996	
	0103	2	3028	Mountain whitefish	286	276	Scales	2	PIT	000000245630	
	0103	2	3029	Mountain whitefish	210	104	Scales	0			
	0103	2	3030	Mountain whitefish	238	160	Scales	3			
	0103	2	3031	Mountain whitefish	211	100	Scales	2			
	0103	2	3032	Mountain whitefish	198	88	Scales	0			
	0103	2	3033	Mountain whitefish	361	566	Scales	2	PIT	000000245805	
	0103	2	3034	Mountain whitefish	288	326	Scales	5	PIT	000000247568	
	0103	2	3035	Mountain whitefish	345	464	Scales	2	FLOY	9459	YELLOW
	0103	2	3036	Mountain whitefish	316	416	Scales	0	PIT	000000248167	
	0103	2	3037	Mountain whitefish	274	294	Scales	0	PIT	000000247427	
	0103	2	3038	Mountain whitefish	323	378	Scales	2	PIT	000000244214	
	0103	2	3039	Mountain whitefish	220	138	Scales	0			
	0103	2	3040	Mountain whitefish	196	94	Scales	0			
	0103	2	3041	Mountain whitefish	281	278	Scales	0	PIT	000000247333	
	0103	2	3042	Mountain whitefish	196	96	Scales	0			
	0103	2	3043	Mountain whitefish	208	94	Scales	0			
	0103	2	3044	Mountain whitefish	212	112	Scales	0			
	0103	2	3045	Mountain whitefish	210	106	Scales	0			
	0103	2	3046	Mountain whitefish	266	242	Scales	0	PIT	000000247784	
	0103	2	3047	Mountain whitefish	201	92	Scales	0			
	0104	2	3048	Mountain whitefish	326	372	Scales	2	PIT	000000242562	
	0104	2	3049	Mountain whitefish	329	358	Scales	2	FLOY	5016	YELLOW
	0104	2	3050	Mountain whitefish	320	324	Scales	0	PIT	000000247879	

Appendix C Table C1. Biological characteristics data for sampled fish, 2008 Peace River Fish Community Indexing Program.

Area and Site Label	Session	FishID	Common Name	Fork Length (mm)	Weight (gm)	Age Structure	Age	Capture Code	Tag			
									Type	Number	Colour	
1	0104	2	3051	Mountain whitefish	356	560	Scales	2	PIT		:000000245805	
	0104	2	3052	Mountain whitefish	314	376	Scales	2	PIT		:000000245344	
	0104	2	3053	Kokanee	213	108		0				
	0104	2	3054	Mountain whitefish	288	292	Scales	0	PIT		:000000247873	
	0104	2	3055	Mountain whitefish	325	382	Scales	0	PIT		:000000247500	
	0104	2	3056	Mountain whitefish	282	314	Scales	0	PIT		:000000248131	
	0104	2	3057	Mountain whitefish	289	288	Scales	0	PIT		:000000248212	
	0104	2	3058	Mountain whitefish	302	308	Scales	2	PIT		0A00736035	
	0104	2	3059	Mountain whitefish	266	220	Scales	0	PIT		:000000247696	
	0104	2	3060	Mountain whitefish	286	278	Scales	0	PIT		:000000247957	
	0104	2	3061	Mountain whitefish	267	238	Scales	4	0	PIT		:000000247711
	0104	2	3062	Mountain whitefish	244	196	Scales	0				
	0104	2	3063	Mountain whitefish	241	190	Scales	0				
	0104	2	3064	Mountain whitefish	285	264	Scales	0	PIT		:000000248019	
	0104	2	3065	Mountain whitefish	302	294	Scales	2	FLOY		13010	WHITE
	0104	2	3066	Mountain whitefish	260	202	Scales	0	PIT		:000000247453	
	0104	2	3067	Mountain whitefish	240	158	Scales	0				
	0104	2	3068	Mountain whitefish	255	194	Scales	0	PIT		:000000248016	
	0104	2	3069	Mountain whitefish	201	98	Scales	0				
	0104	2	3070	Mountain whitefish	213	108	Scales	0				
	0104	2	3071	Mountain whitefish	218	116	Scales	0				
	0104	2	3072	Mountain whitefish	277	288	Scales	2	PIT		:000000247427	
	0104	2	3073	Mountain whitefish	189	80	Scales	0				
	0105	2	3074	Mountain whitefish	191	88	Scales	0				
	0105	2	3075	Largescale sucker	530			0				
	0105	2	3076	Mountain whitefish	381	668	Scales	2	FLOY		2258	YELLOW
	0105	2	3077	Mountain whitefish	384	314	Scales	0	PIT		:000000247424	
	0105	2	3078	Mountain whitefish	279	270	Scales	0	PIT		:000000247448	
	0105	2	3079	Mountain whitefish	294	298	Scales	5	0	PIT		:000000248110
	0105	2	3080	Mountain whitefish	307	352	Scales	0	PIT		:000000247969	
	0105	2	3081	Mountain whitefish	286	278	Scales	0	PIT		:000000247175	
	0105	2	3082	Mountain whitefish	292	278	Scales	0	PIT		:000000247804	
	0105	2	3083	Mountain whitefish	376	620	Scales	2	PIT		:000000240565	
	0105	2	3084	Mountain whitefish	284	292	Scales	2	PIT		4D00042055	
	0105	2	3085	Mountain whitefish	212	114	Scales	0				
	0105	2	3086	Mountain whitefish	332	468	Scales	2	FLOY		7959	YELLOW
	0105	2	3087	Mountain whitefish	335	392	Scales	2	PIT		:000000243232	
	0105	2	3088	Mountain whitefish	272	218	Scales	0	PIT		:000000247401	
	0105	2	3089	Mountain whitefish	276	248	Scales	0	PIT		:000000247467	
	0105	2	3090	Mountain whitefish	329	478	Scales	0	PIT		:000000247722	
	0105	2	3091	Mountain whitefish	309	340	Scales	5	PIT		:000000247726	
	0105	2	3092	Mountain whitefish	365	474	Scales	2	PIT		0A00752123	
	0105	2	3093	Mountain whitefish	262	240	Scales	0	PIT		:000000247983	
	0105	2	3094	Mountain whitefish	346	416	Scales	2	FLOY		5049	YELLOW
	0105	2	3095	Mountain whitefish	286	274	Scales	0	PIT		:000000248121	
	0105	2	3096	Mountain whitefish	257	182	Scales	0	PIT		:000000248178	
	0105	2	3097	Mountain whitefish	327	416	Scales	0	PIT		:000000247539	
	0105	2	3098	Mountain whitefish	327	396	Scales	6	2	PIT		:000000245217
	0105	2	3099	Mountain whitefish	255	208	Scales	0	PIT		:000000247583	
	0105	2	3100	Mountain whitefish	266	236	Scales	4	0	PIT		:000000247876
	0105	2	3101	Mountain whitefish	260	236	Scales	4	0			
	0105	2	3102	Mountain whitefish	282	232	Scales	2	PIT		:000000247017	
	0105	2	3103	Mountain whitefish	306	318	Scales	0	PIT		:000000248032	
	0105	2	3104	Mountain whitefish	272	250	Scales	0	PIT		:000000248247	
	0105	2	3105	Mountain whitefish	261	234	Scales	0	PIT		:000000248068	
	0105	2	3106	Mountain whitefish	289	240	Scales	0	PIT		:000000247673	
	0105	2	3107	Mountain whitefish	248	162	Scales	0				
	0105	2	3108	Mountain whitefish	253	158	Scales	0	PIT		:000000247355	
	0105	2	3109	Mountain whitefish	284	260	Scales	0	PIT		:000000248238	
	0105	2	3110	Mountain whitefish	254	208	Scales	0				
	0105	2	3111	Mountain whitefish	241	120	Scales	0				
	0105	2	3112	Mountain whitefish	206	84	Scales	0				
	0105	2	3113	Mountain whitefish	254	192	Scales	0	PIT		:000000248153	
	0105	2	3114	Mountain whitefish	230	148	Scales	0				

Appendix C Table C1. Biological characteristics data for sampled fish, 2008 Peace River Fish Community Indexing Program.

Area and Site Label	Session	FishID	Common Name	Fork Length (mm)	Weight (gm)	Age Structure	Age	Capture Code	Tag		
									Type	Number	Colour
1											
0105	2	3115	Mountain whitefish	239	168	Scales	2	0			
0105	2	3116	Mountain whitefish	206	94	Scales		0			
0105	2	3117	Mountain whitefish	221	108	Scales		0			
0105	2	3118	Mountain whitefish	212	98	Scales		0			
0105	2	3119	Mountain whitefish	220	114	Scales		0			
0105	2	3120	Mountain whitefish	275	264	Scales		0	PIT	000000247607	
0105	2	3121	Mountain whitefish	190	80	Scales		0			
0101	2	3122	Mountain whitefish	309	348	Scales	5	2	PIT	4D00027646	
0101	2	3123	Arctic grayling	324	406	Scales	3	0	PIT	000000248111	
0101	2	3124	Mountain whitefish	360	498	Scales		0	PIT	000000248250	
0101	2	3125	Mountain whitefish	420	830	Scales		2	PIT	0A00726607	
0101	2	3126	Mountain whitefish	313	390	Scales		0	PIT	000000245381	
0101	2	3127	Mountain whitefish	282	294	Scales		2	PIT	0A00711020	
0101	2	3128	Mountain whitefish	313	366	Scales		2	PIT	000000238850	
0101	2	3129	Mountain whitefish	342	410	Scales		0	PIT	000000247768	
0101	2	3130	Mountain whitefish	335	436	Scales		0	PIT	000000247814	
0101	2	3131	Mountain whitefish	354	466	Scales		0	PIT	000000247717	
0101	2	3132	Mountain whitefish	318	394	Scales		2	PIT	4D00035729	
0101	2	3133	Mountain whitefish	281	318	Scales		2	PIT	000000246430	
0101	2	3134	Mountain whitefish	304	370	Scales		0	PIT	000000248022	
0101	2	3135	Mountain whitefish	353	452	Scales		0	PIT	000000248010	
0101	2	3136	Mountain whitefish	310	376	Scales		0	PIT	000000247317	
0101	2	3137	Mountain whitefish	321	440	Scales		2	FLOY	3739	YELLOW
0101	2	3138	Mountain whitefish	275	264	Scales	3	0	PIT	000000248186	
0101	2	3139	Mountain whitefish	330	440	Scales	7	2	PIT	000000238136	
0101	2	3140	Mountain whitefish	362	572	Scales		2	PIT	000000238915	
0101	2	3141	Mountain whitefish	370	574	Scales		0	PIT	000000247499	
0101	2	3142	Mountain whitefish	329	414	Scales		0	PIT	000000243668	
0101	2	3143	Mountain whitefish	284	278	Scales		2	FLOY	14146	WHITE
0101	2	3144	Mountain whitefish	263	236	Scales		0	PIT	000000247793	
0101	2	3145	Mountain whitefish	292	298	Scales		0	PIT	000000248240	
0101	2	3146	Mountain whitefish	270	252	Scales		0	PIT	000000247251	
0101	2	3147	Mountain whitefish	258	216	Scales		0	PIT	000000248118	
0101	2	3148	Mountain whitefish	313	324	Scales		2	FLOY	15930	WHITE
0101	2	3149	Mountain whitefish	282	294	Scales		2	PIT	4D00013340	
0101	2	3150	Mountain whitefish	315	368	Scales		2	PIT	000000240510	
0101	2	3151	Mountain whitefish	281	282	Scales		2	PIT	000000241037	
0101	2	3152	Mountain whitefish	257	202	Scales		0	PIT	000000247544	
0101	2	3153	Mountain whitefish	322	454	Scales	6	2	PIT	0A00724635	
0101	2	3154	Mountain whitefish	248	184	Scales		0			
0101	2	3155	Mountain whitefish	337	386	Scales		0	PIT	000000247590	
0101	2	3156	Mountain whitefish	314	362	Scales		5	PIT	000000247941	
0101	2	3157	Mountain whitefish	273	250	Scales		0	PIT	000000247588	
0101	2	3158	Mountain whitefish	308	376	Scales		2	PIT	000000241346	
0101	2	3159	Mountain whitefish	261	244	Scales		0	PIT	000000248152	
0101	2	3160	Mountain whitefish	338	492	Scales		0	PIT	000000248072	
0101	2	3161	Mountain whitefish	318	350	Scales	6	0	PIT	000000248060	
0101	2	3162	Mountain whitefish	307	292	Scales		2	PIT	000000241930	
0101	2	3163	Mountain whitefish	294	304	Scales		2	FLOY	9561	YELLOW
0101	2	3164	Mountain whitefish	330	366	Scales		0	PIT	000000248221	
0101	2	3165	Mountain whitefish	300	320	Scales		2	PIT	000000238227	
0101	2	3166	Mountain whitefish	302	356	Scales		2	FLOY	13051	WHITE
0101	2	3167	Mountain whitefish	319	418	Scales		0	PIT	000000247415	
0101	2	3168	Mountain whitefish	295	330	Scales		2	FLOY	15957	WHITE
0101	2	3169	Mountain whitefish	351	514	Scales		0	PIT	000000247471	
0101	2	3170	Mountain whitefish	299	334	Scales		5	PIT	000000248000	
0101	2	3171	Mountain whitefish	325	448	Scales		0			
0101	2	3172	Mountain whitefish	268	254	Scales		0	PIT	000000248253	
0101	2	3173	Mountain whitefish	339	500	Scales		0			
0101	2	3174	Mountain whitefish	290	284	Scales		0	PIT	000000248169	
0101	2	3175	Mountain whitefish	271	266	Scales		0	PIT	000000248284	
0101	2	3176	Mountain whitefish	275	284	Scales		0	PIT	000000247487	
0101	2	3177	Mountain whitefish	276	264	Scales		0	PIT	000000247682	
0101	2	3178	Mountain whitefish	282	296	Scales		0	PIT	000000247988	

Appendix C Table C1. Biological characteristics data for sampled fish, 2008 Peace River Fish Community Indexing Program.

Area and Site Label	Session	FishID	Common Name	Fork Length (mm)	Weight (gm)	Age Structure	Age	Capture Code	Tag			
									Type	Number	Colour	
1												
	0101	2	3179	Mountain whitefish	322	346	Scales	0	PIT			
	0101	2	3180	Mountain whitefish	301	290	Scales	0	PIT			
	0101	2	3181	Mountain whitefish	295	292	Scales	0	PIT			
	0101	2	3182	Mountain whitefish	314	344	Scales	2	FLOY	15372	WHITE	
	0101	2	3183	Mountain whitefish	318	390	Scales	0	PIT			
	0101	2	3184	Mountain whitefish	298	358	Scales	6	0	PIT		
	0101	2	3185	Mountain whitefish	279	264	Scales	0	PIT			
	0101	2	3186	Mountain whitefish	278	274	Scales	4	2	PIT		
	0101	2	3187	Mountain whitefish	284	250	Scales	0	PIT			
	0101	2	3188	Mountain whitefish	280	274	Scales	0	PIT			
	0101	2	3189	Mountain whitefish	263	240	Scales	3	0	PIT		
	0101	2	3190	Mountain whitefish	278	278	Scales	0	PIT			
	0101	2	3191	Mountain whitefish	251	172	Scales	0	PIT			
	0101	2	3192	Mountain whitefish	272	274	Scales	0	PIT			
	0101	2	3193	Mountain whitefish	278	280	Scales	0	PIT			
	0101	2	3194	Mountain whitefish	264	230	Scales	0	PIT			
	0101	2	3195	Mountain whitefish	266	240	Scales	0	PIT			
	0101	2	3196	Mountain whitefish	242	176	Scales	0				
	0101	2	3197	Mountain whitefish	280	268	Scales	0	PIT			
	0101	2	3198	Mountain whitefish	262	222	Scales	0	PIT			
	0101	2	3199	Mountain whitefish	240	176	Scales	0				
	0101	2	3200	Mountain whitefish	268	252	Scales	0	PIT			
	0101	2	3201	Mountain whitefish	259	218	Scales	0	PIT			
	0101	2	3202	Mountain whitefish	260	218	Scales	0	PIT			
	0101	2	3203	Mountain whitefish	211	106	Scales	0				
	0101	2	3204	Mountain whitefish	219	112	Scales	2	0			
	0101	2	3205	Mountain whitefish	201	98	Scales	0				
	0101	2	3206	Mountain whitefish	236	146	Scales	0				
	0101	2	3207	Mountain whitefish	213	114	Scales	2	0			
	0101	2	3208	Mountain whitefish	210	104	Scales	0				
	0101	2	3209	Mountain whitefish	200	96	Scales	0				
	0101	2	3210	Mountain whitefish	198	90	Scales	0				
	0101	2	3211	Mountain whitefish	205	92	Scales	0				
	0102	2	3212	Mountain whitefish	339	402	Scales	0	PIT			
	0102	2	3213	Mountain whitefish	336	406	Scales	0	PIT			
	0102	2	3214	Mountain whitefish	333	434	Scales	5	2	PIT	0A00743373	
	0102	2	3215	Mountain whitefish	349	464	Scales	0	PIT			
	0102	2	3216	Mountain whitefish	328	404	Scales	0	PIT			
	0102	2	3217	Mountain whitefish	304	324	Scales	0	PIT			
	0102	2	3218	Mountain whitefish	324	376	Scales	2	FLOY	14189	WHITE	
	0102	2	3219	Mountain whitefish	240	172	Scales	0				
	0102	2	3220	Mountain whitefish	347	450	Scales	0	PIT			
	0102	2	3221	Mountain whitefish	333	360	Scales	0	PIT			
	0102	2	3222	Mountain whitefish	308	388	Scales	0	PIT			
	0102	2	3223	Mountain whitefish	304	372	Scales	0	PIT			
	0102	2	3224	Mountain whitefish	296	314	Scales	0	PIT			
	0102	2	3225	Mountain whitefish	354	438	Scales	0	PIT			
	0102	2	3226	Mountain whitefish	325	486	Scales	0	PIT			
	0102	2	3227	Mountain whitefish	354	522	Scales	2	FLOY	9576	YELLOW	
	0102	2	3228	Mountain whitefish	333	416	Scales	2	PIT	0A00714403		
	0102	2	3229	Mountain whitefish	314	354	Scales	2	PIT			
	0102	2	3230	Mountain whitefish	305	332	Scales	0	PIT			
	0102	2	3231	Mountain whitefish	320	460	Scales	0	PIT			
	0102	2	3232	Mountain whitefish	207	104	Scales	0				
	0102	2	3233	Mountain whitefish	313	396	Scales	6	0	PIT		
	0102	2	3234	Mountain whitefish	327	392	Scales	0	PIT			
	0102	2	3235	Mountain whitefish	314	356	Scales	0	PIT			
	0102	2	3236	Mountain whitefish	318	358	Scales	2	PIT			
	0102	2	3237	Mountain whitefish	260	210	Scales	0	PIT			
	0102	2	3238	Mountain whitefish	280	314	Scales	0	PIT			
	0102	2	3239	Mountain whitefish	332	440	Scales	5	0	PIT		
	0102	2	3240	Mountain whitefish	334	422	Scales	2	FLOY	437	YELLOW	
	0102	2	3241	Mountain whitefish	344	446	Scales	2	PIT			
	0102	2	3242	Mountain whitefish	234	186	Scales	3	0			

Appendix C Table C1. Biological characteristics data for sampled fish, 2008 Peace River Fish Community Indexing Program.

Area and Site Label	Session	FishID	Common Name	Fork Length (mm)	Weight (gm)	Age Structure	Age	Capture Code	Tag		
									Type	Number	Colour
1											
	0102	2	3243	Mountain whitefish	260	230	Scales	0	PIT	000000248034	
	0102	2	3244	Mountain whitefish	305	328	Scales	2	FLOY	14186	WHITE
	0102	2	3245	Mountain whitefish	300	316	Scales	2	PIT	0A00736735	
	0102	2	3246	Mountain whitefish	333	418	Scales	0	PIT	000000247831	
	0102	2	3247	Mountain whitefish	314	366	Scales	0	PIT	000000247747	
	0102	2	3248	Mountain whitefish	282	312	Scales	0	PIT	000000247671	
	0102	2	3249	Mountain whitefish	382	644	Scales	0			
	0102	2	3250	Mountain whitefish	345	468	Scales	0	PIT	000000247322	
	0102	2	3251	Mountain whitefish	294	332	Scales	0	PIT	000000247960	
	0102	2	3252	Mountain whitefish	231	152	Scales	0			
	0102	2	3253	Mountain whitefish	267	228	Scales	0	PIT	000000247525	
	0102	2	3254	Mountain whitefish	203	98	Scales	0			
	0102	2	3255	Mountain whitefish	286	304	Scales	2	PIT	0A00720109	
	0102	2	3256	Mountain whitefish	220	128	Scales	0			
	0102	2	3257	Mountain whitefish	250	210	Scales	0	PIT	000000247918	
	0102	2	3258	Mountain whitefish	279	290	Scales	0	PIT	000000247758	
	0102	2	3259	Mountain whitefish	204	102	Scales	0			
	0102	2	3260	Mountain whitefish	206	108	Scales	0			
	0102	2	3261	Mountain whitefish	277	274	Scales	0	PIT	000000248312	
	0102	2	3262	Mountain whitefish	219	124	Scales	0			
	0102	2	3263	Mountain whitefish	367	476	Scales	0	PIT	000000248103	
	0102	2	3264	Mountain whitefish	302	384	Scales	0	PIT	000000248073	
	0102	2	3265	Mountain whitefish	264	244	Scales	2	PIT	000000246859	
	0102	2	3266	Mountain whitefish	180	80	Scales	0			
	0106	2	3267	Bull trout	622	3530	Fin Ray	5	0	PIT	000000247376
	0106	2	3268	Longnose sucker	435	1162			0		
	0106	2	3269	Mountain whitefish	318	376	Scales	2	PIT	000000242414	
	0106	2	3270	Mountain whitefish	316	308	Scales	0	PIT	000000248063	
	0106	2	3271	Mountain whitefish	350	512	Scales	0			
	0106	2	3272	Mountain whitefish	275	294	Scales	2	PIT	000000247238	
	0106	2	3273	Mountain whitefish	307	308	Scales	0	PIT	000000247658	
	0106	2	3274	Mountain whitefish	290	282	Scales	4	0	PIT	000000247694
	0106	2	3275	Mountain whitefish	299	298	Scales	0	PIT	000000248184	
	0106	2	3276	Mountain whitefish	258	218	Scales	0	PIT	000000248125	
	0106	2	3277	Mountain whitefish	229	142	Scales	0			
	0106	2	3278	Mountain whitefish	206	90	Scales	0			
	0106	2	3279	Mountain whitefish	191	76	Scales	0			
	0106	2	3280	Mountain whitefish	200	102	Scales	0			
	0106	2	3281	Kokanee	131	20		0			
	0110	2	3282	Longnose sucker	402	892		0			
	0110	2	3283	Mountain whitefish	293	288	Scales	0			
	0110	2	3284	Mountain whitefish	320	406	Scales	0			
	0110	2	3285	Mountain whitefish	283	240	Scales	0	PIT	000000247864	
	0110	2	3286	Mountain whitefish	321	366	Scales	0	PIT	000000247972	
	0110	2	3287	Mountain whitefish	288	314	Scales	0	PIT	000000247840	
	0110	2	3288	Mountain whitefish	296	310	Scales	0	PIT	000000247393	
	0110	2	3289	Mountain whitefish	314	354	Scales	2	PIT	000000247760	
	0110	2	3290	Mountain whitefish	308	352	Scales	2	PIT	000000247170	
	0110	2	3291	Mountain whitefish	296	336	Scales	0	PIT	000000247974	
	0110	2	3292	Mountain whitefish	302	298	Scales	0	PIT	000000247557	
	0110	2	3293	Mountain whitefish	332	406	Scales	2	PIT	000000239344	
	0110	2	3294	Mountain whitefish	316	384	Scales	4	2	PIT	4D00035249
	0110	2	3295	Mountain whitefish	311	386	Scales	0	PIT	000000248150	
	0110	2	3296	Mountain whitefish	325	318	Scales	2	PIT	000000243739	
	0110	2	3297	Mountain whitefish	316	386	Scales	0	PIT	000000247480	
	0110	2	3298	Mountain whitefish	335	416	Scales	2	FLOY	14324	WHITE
	0110	2	3299	Mountain whitefish	295	330	Scales	0	PIT	000000247706	
	0110	2	3300	Mountain whitefish	286	278	Scales	0	PIT	000000247985	
	0110	2	3301	Mountain whitefish	330	430	Scales	0	PIT	000000247746	
	0110	2	3302	Mountain whitefish	326	332	Scales	0	PIT	000000247635	
	0110	2	3303	Mountain whitefish	332	348	Scales	2	PIT	000000246316	
	0110	2	3304	Mountain whitefish	190	80	Scales	0			
	0110	2	3305	Mountain whitefish	311	300	Scales	0	PIT	000000248261	
	0110	2	3306	Mountain whitefish	258	216	Scales	0	PIT	000000247398	

Appendix C Table C1. Biological characteristics data for sampled fish, 2008 Peace River Fish Community Indexing Program.

Area and Site Label	Session	FishID	Common Name	Fork Length (mm)	Weight (gm)	Age Structure	Age	Capture Code	Tag			
									Type	Number	Colour	
1	0109	2	3371	Mountain whitefish	286	286	Scales	0	PIT			
	0109	2	3372	Mountain whitefish	257	206	Scales	0	PIT			
	0109	2	3373	Mountain whitefish	270	226	Scales	0	PIT			
	0109	2	3374	Mountain whitefish	227	138	Scales	0				
	0109	2	3375	Mountain whitefish	253	198	Scales	0	PIT			
	0109	2	3376	Mountain whitefish	251	182	Scales	0	PIT			
	0109	2	3377	Mountain whitefish	275	224	Scales	0	PIT			
	0109	2	3378	Mountain whitefish	210	104	Scales	0				
	0109	2	3379	Mountain whitefish	208	116	Scales	0				
	0111	2	3380	Rainbow trout	224	142		0				
	0111	2	3381	Mountain whitefish	338	474	Scales	0	PIT			
	0111	2	3382	Mountain whitefish	313	352	Scales	2	PIT			
	0111	2	3383	Mountain whitefish	259	226	Scales	0	PIT			
	0111	2	3384	Mountain whitefish	292	300	Scales	0	PIT			
	0111	2	3385	Mountain whitefish	348	488	Scales	2	PIT			
	0111	2	3386	Mountain whitefish	252	188	Scales	0	PIT			
	0111	2	3387	Mountain whitefish	231	170	Scales	0				
	0111	2	3388	Mountain whitefish	303	294	Scales	2	PIT	4D00012617		
	0111	2	3389	Mountain whitefish	354	436	Scales	0	PIT			
	0111	2	3390	Mountain whitefish	293	320	Scales	0	PIT			
	0111	2	3391	Kokanee	207	106		0				
	0111	2	3392	Mountain whitefish	291	304	Scales	2	FLOY		14392	WHITE
	0111	2	3393	Mountain whitefish	273	226	Scales	0	PIT			
	0111	2	3394	Mountain whitefish	217	110	Scales	0				
	0111	2	3395	Mountain whitefish	273	244	Scales	0	PIT			
	0111	2	3396	Mountain whitefish	275	278	Scales	0				
	0111	2	3397	Mountain whitefish	314	342	Scales	0	PIT			
	0111	2	3398	Mountain whitefish	348	404	Scales	2	FLOY		8170	YELLOW
	0111	2	3399	Mountain whitefish	204	98	Scales	0				
	0111	2	3400	Mountain whitefish	302	274	Scales	0	PIT			
	0111	2	3401	Mountain whitefish	260	274	Scales	0	PIT			
	0111	2	3402	Mountain whitefish	305	348	Scales	0	PIT			
	0111	2	3403	Mountain whitefish	245	164	Scales	0				
	0111	2	3404	Mountain whitefish	279	260	Scales	4	0	PIT		
	0111	2	3405	Mountain whitefish	184	74	Scales	0				
	0111	2	3406	Bull trout	310	314	Fin Ray	4	0	PIT		
	0111	2	3407	Rainbow trout	354	522		0				
	0112	2	3408	Mountain whitefish	263	214	Scales	0	PIT			
	0112	2	3409	Mountain whitefish	337	424	Scales	2	FLOY		6631	YELLOW
	0112	2	3410	Mountain whitefish	331	396	Scales	0	PIT			
	0112	2	3411	Mountain whitefish	301	342	Scales	6	0	PIT		
	0112	2	3412	Mountain whitefish	308	360	Scales	0	PIT			
	0112	2	3413	Mountain whitefish	320	386	Scales	2	FLOY		2281	YELLOW
	0112	2	3414	Mountain whitefish	285	252	Scales	0	PIT			
	0112	2	3415	Mountain whitefish	347	522	Scales	2	FLOY		3329	ORANGE
	0112	2	3416	Mountain whitefish	304	332	Scales	2	PIT			
	0112	2	3417	Mountain whitefish	319	324	Scales	0	PIT			
	0112	2	3418	Mountain whitefish	273	244	Scales	0	PIT			
	0112	2	3419	Mountain whitefish	336	452	Scales	0	PIT			
	0112	2	3420	Mountain whitefish	280	276	Scales	0	PIT			
	0112	2	3421	Mountain whitefish	323	386	Scales	5	0	PIT		
	0112	2	3422	Mountain whitefish	324	398	Scales	2	FLOY		5243	YELLOW
	0112	2	3423	Mountain whitefish	327	388	Scales	0	PIT			
	0112	2	3424	Rainbow trout	366	450		0				
	0112	2	3425	Rainbow trout	125	20		0				
	0112	2	3426	Mountain whitefish	319	380	Scales	0	PIT			
	0112	2	3427	Mountain whitefish	309	352	Scales	2	PIT	4D00035871		
	0112	2	3428	Mountain whitefish	290	266	Scales	0	PIT			
	0112	2	3429	Mountain whitefish	274	262	Scales	0	PIT			
	0112	2	3430	Mountain whitefish	300	360	Scales	0	PIT			
	0112	2	3431	Mountain whitefish	283	244	Scales	0	PIT			
	0112	2	3432	Mountain whitefish	261	212	Scales	0	PIT			
	0112	2	3433	Mountain whitefish	295	306	Scales	2	PIT			
	0112	2	3434	Mountain whitefish	323	358	Scales	2	PIT			

Appendix C Table C1. Biological characteristics data for sampled fish, 2008 Peace River Fish Community Indexing Program.

Area and Site Label	Session	FishID	Common Name	Fork Length (mm)	Weight (gm)	Age Structure	Age	Capture Code	Tag		
									Type	Number	Colour
1											
	2	3499	Mountain whitefish	256	188	Scales		0	PIT		000000248120
	2	3500	Mountain whitefish	212	106	Scales		0			
	2	3501	Mountain whitefish	320	382	Scales		2	FLOY	14178	WHITE
	2	3502	Mountain whitefish	297	262	Scales		2	FLOY	15458	WHITE
	2	3503	Mountain whitefish	334	416	Scales		0	PIT		000000248299
	2	3504	Mountain whitefish	339	468	Scales		0			
	2	3505	Mountain whitefish	313	336	Scales		0	PIT		000000247472
	2	3506	Mountain whitefish	325	394	Scales		0	PIT		000000247971
	2	3507	Mountain whitefish	312	352	Scales		2	FLOY	1031	YELLOW
	2	3508	Mountain whitefish	283	294	Scales		0	PIT		000000247593
	2	3509	Mountain whitefish	298	332	Scales		0	PIT		000000248205
	2	3510	Mountain whitefish	318	328	Scales		0	PIT		000000247861
	2	3511	Mountain whitefish	290	270	Scales		0	PIT		000000248075
	2	3512	Mountain whitefish	325	332	Scales		2	PIT		000000239724
	2	3513	Mountain whitefish	330	408	Scales		0	PIT		000000247657
	2	3514	Mountain whitefish	327	354	Scales		0	PIT		000000248309
	2	3515	Mountain whitefish	301	304	Scales		5	PIT		000000248161
	2	3516	Mountain whitefish	277	260	Scales		0	PIT		000000247419
	2	3517	Mountain whitefish	276	288	Scales		2	PIT		000000242565
	2	3518	Mountain whitefish	302	326	Scales		2	PIT		000000239943
	2	3519	Mountain whitefish	316	314	Scales		2	FLOY	8368	YELLOW
	2	3520	Mountain whitefish	265	248	Scales		0	PIT		000000247561
	2	3521	Mountain whitefish	309	354	Scales		0	PIT		000000246118
	2	3522	Mountain whitefish	305	342	Scales		0	PIT		000000247643
	2	3523	Mountain whitefish	310	358	Scales		0	PIT		000000247742
	2	3524	Mountain whitefish	283	272	Scales		0	PIT		000000247959
	2	3525	Mountain whitefish	320	354	Scales		0	PIT		000000248259
	2	3526	Mountain whitefish	328	366	Scales		2	PIT		000000238622
	2	3527	Mountain whitefish	262	234	Scales	4	0	PIT		000000247828
	2	3528	Rainbow trout	223	120			0			
	2	3529	Mountain whitefish	266	218	Scales		0	PIT		000000248132
	2	3530	Mountain whitefish	304	312	Scales		0	PIT		000000247841
	2	3531	Mountain whitefish	254	182	Scales		0	PIT		000000247916
	2	3532	Rainbow trout	164	50			0			
	2	3533	Mountain whitefish	260	216	Scales		0	PIT		000000248123
	2	3534	Mountain whitefish	295	298	Scales		0	PIT		000000247926
	2	3535	Rainbow trout	155	46			0			
	2	3536	Rainbow trout	212	124			0			
	2	3537	Mountain whitefish	255	230	Scales		0	PIT		000000248209
	2	3538	Mountain whitefish	95				0			
	3	5303	Mountain whitefish	315	260	Scales		2	FLOY	3045	ORANGE
	3	5304	Mountain whitefish	317	334	Scales		2	FLOY	15062	WHITE
	3	5305	Mountain whitefish	230	138	Scales		0			
	3	5306	Mountain whitefish	346	478	Scales		0	PIT		000000078060
	3	5307	Mountain whitefish	295	278	Scales		0	PIT		000000087544
	3	5308	Mountain whitefish	327	440	Scales		0	PIT		000000079586
	3	5309	Rainbow trout	457	922			0			
	3	5310	Kokanee	129	22			0			
	3	5311	Rainbow trout	208	118			0			
	3	5312	Mountain whitefish	303	328	Scales		2	PIT		000000241843
	3	5313	Mountain whitefish	294	344	Scales		0	PIT		000000083685
	3	5314	Mountain whitefish	308	328	Scales		2	PIT		000000247187
	3	5315	Mountain whitefish	258	186	Scales		0	PIT		000000110094
	3	5316	Mountain whitefish	265	232	Scales		0	PIT		000000110089
	3	5317	Mountain whitefish	367	508	Scales		0	PIT		000000110088
	3	5318	Mountain whitefish	292	298	Scales		0	PIT		000000092496
	3	5319	Mountain whitefish	197	84	Scales		0			
	3	5320	Rainbow trout	186	72			0			
	3	5321	Largescale sucker	426	1042			0			
	3	5322	Rainbow trout	311	304			0			
	3	5323	Largescale sucker	520	1490			0			
	3	5324	Longnose sucker	416	966			0			
	3	5325	Mountain whitefish	328	330	Scales		2	FLOY	14238	WHITE
	3	5326	Mountain whitefish	300	322	Scales		2	PIT		000000240870

Appendix C Table C1. Biological characteristics data for sampled fish, 2008 Peace River Fish Community Indexing Program.

Area and Site Label	Session	FishID	Common Name	Fork Length (mm)	Weight (gm)	Age Structure	Age	Capture Code	Tag		
									Type	Number	Colour
1											
	0103	4	7514	Mountain whitefish	298	360	Scales	0	PIT		:000000083756
	0103	4	7515	Mountain whitefish	318	400	Scales	2	FLOY	6791	YELLOW
	0103	4	7516	Mountain whitefish	265	220	Scales	2	PIT		:000000245619
	0103	4	7517	Mountain whitefish	322	376	Scales	2	FLOY	4987	YELLOW
	0103	4	7518	Mountain whitefish	218	112	Scales	0			
	0103	4	7519	Mountain whitefish	258	192	Scales	0	PIT		:000000087156
	0103	4	7520	Mountain whitefish	218	104	Scales	0			
	0103	4	7521	Mountain whitefish	343	372	Scales	0	PIT		:000000077526
	0103	4	7522	Mountain whitefish	240	154	Scales	0			
	0103	4	7523	Mountain whitefish	280	264	Scales	0	PIT		:000000078890
	0103	4	7524	Mountain whitefish	197	84	Scales	0			
	0103	4	7525	Mountain whitefish	235	148	Scales	0			
	0103	4	7526	Mountain whitefish	330	386	Scales	2	PIT		:000000241494
	0103	4	7527	Mountain whitefish	273	230	Scales	0	PIT		:000000089144
	0103	4	7528	Mountain whitefish	264	232	Scales	0	PIT		:000000082366
	0103	4	7529	Mountain whitefish	311	376	Scales	0	PIT		:000000073201
	0103	4	7530	Mountain whitefish	208	96	Scales	0			
	0103	4	7531	Mountain whitefish	247	190	Scales	0			
	0103	4	7532	Mountain whitefish	226	138	Scales	0			
	0103	4	7533	Mountain whitefish	330	398	Scales	0	PIT		:000000093517
	0103	4	7534	Mountain whitefish	215	108	Scales	0			
	0103	4	7535	Mountain whitefish	271	252	Scales	0	PIT		:000000085990
	0103	4	7536	Mountain whitefish	232		Scales	0			
	0103	4	7537	Mountain whitefish	215	108	Scales	2	0		
	0105	4	7538	Mountain whitefish	309	342	Scales	2	PIT		:000000247726
	0105	4	7539	Mountain whitefish	245	168	Scales	0			
	0105	4	7540	Mountain whitefish	283	278	Scales	0	PIT		:000000090067
	0105	4	7541	Mountain whitefish	258	172	Scales	2	PIT		:000000238784
	0105	4	7542	Northern pikeminnow	254	188		0			
	0105	4	7543	Mountain whitefish	211	118	Scales	0			
	0105	4	7544	Mountain whitefish	157	48	Scales	0			
	0105	4	7545	Mountain whitefish	381	676	Scales	2	FLOY	2258	YELLOW
	0105	4	7546	Mountain whitefish	282	250	Scales	3	PIT		:000000086984
	0105	4	7547	Mountain whitefish	337	366	Scales	0			
	0105	4	7548	Mountain whitefish	305	344	Scales	0	PIT		:000000091922
	0105	4	7549	Mountain whitefish	265	220	Scales	0	PIT		:000000077683
	0105	4	7550	Mountain whitefish	195	84	Scales	0			
	0105	4	7551	Rainbow trout	151	40		0			
	0105	4	7552	Mountain whitefish	222	134	Scales	2	0		
	0105	4	7553	Mountain whitefish	268	242	Scales	3	0	PIT	:000000090323
	0105	4	7554	Rainbow trout	415	790		0			
	0105	4	7555	Rainbow trout	305	368		0			
	0105	4	7556	Rainbow trout	244	176		0			
	0105	4	7557	Mountain whitefish	247	190	Scales	0			
	0105	4	7558	Mountain whitefish	277	258	Scales	0	PIT		:000000109861
	0105	4	7559	Mountain whitefish	272	268	Scales	0	PIT		:000000084149
	0105	4	7560	Mountain whitefish	272	274	Scales	0	PIT		:000000087013
	0105	4	7561	Mountain whitefish	262	244	Scales	0	PIT		:000000110740
	0105	4	7562	Mountain whitefish	196	84	Scales	2	0		
	0105	4	7563	Mountain whitefish	212	110	Scales	0			
	0105	4	7564	Mountain whitefish	238	172	Scales	0			
	0105	4	7565	Mountain whitefish	295	360	Scales	6	2	PIT	:000000239546
	0105	4	7566	Mountain whitefish	270	254	Scales	0	PIT		:000000110497
	0105	4	7567	Mountain whitefish	275	250	Scales	0	PIT		:000000082649
	0105	4	7568	Mountain whitefish	245	154	Scales	0			
	0105	4	7569	Mountain whitefish	210	112	Scales	0			
	0105	4	7570	Mountain whitefish	213	106	Scales	0			
	0105	4	7571	Mountain whitefish	161	46	Scales	0			
	0105	4	7572	Rainbow trout	158	44		0			
	0104	4	7573	Largescale sucker	447	1110		0			
	0104	4	7574	Largescale sucker	468	1254		0			
	0104	4	7575	Largescale sucker	466	1346		0			
	0104	4	7576	Mountain whitefish	282	296	Scales	4	0		
	0104	4	7577	Mountain whitefish	305	338	Scales	0	PIT		:000000077258

Appendix C Table C1. Biological characteristics data for sampled fish, 2008 Peace River Fish Community Indexing Program.

Area and Site Label	Session	FishID	Common Name	Fork Length (mm)	Weight (gm)	Age Structure	Age	Capture Code	Tag			
									Type	Number	Colour	
1	0104	4	7578	Mountain whitefish	312	356	Scales	2	PIT			
	0104	4	7579	Mountain whitefish	354	492	Scales	2	PIT			
	0104	4	7580	Mountain whitefish	305	322	Scales	0	PIT			
	0104	4	7581	Mountain whitefish	268	254	Scales	0	PIT			
	0104	4	7582	Mountain whitefish	323	342	Scales	0	PIT			
	0104	4	7583	Mountain whitefish	280	254	Scales	0	PIT			
	0104	4	7584	Mountain whitefish	331	402	Scales	2	PIT			
	0104	4	7585	Mountain whitefish	301	314	Scales	0	PIT			
	0104	4	7586	Mountain whitefish	340	330	Scales	0	PIT			
	0104	4	7587	Mountain whitefish	272	246	Scales	0	PIT			
	0104	4	7588	Mountain whitefish	315	376	Scales	2	PIT			
	0104	4	7589	Mountain whitefish	222	124	Scales	0				
	0104	4	7590	Kokanee	201	84		0				
	0104	4	7591	Mountain whitefish	266	226	Scales	0	PIT			
	0104	4	7592	Mountain whitefish	294	264	Scales	2	FLOY		3642	YELLOW
	0104	4	7593	Mountain whitefish	230	138	Scales	0				
	0104	4	7594	Mountain whitefish	251	186	Scales	0	PIT			
	0101	4	7595	Mountain whitefish	325	454	Scales	0	PIT			
	0101	4	7596	Mountain whitefish	328	382	Scales	2	PIT			
	0101	4	7597	Mountain whitefish	282	298	Scales	0	PIT			
	0101	4	7598	Mountain whitefish	372	576	Scales	2	PIT			
	0101	4	7599	Mountain whitefish	295	314	Scales	0	PIT			
	0101	4	7600	Mountain whitefish	247	160	Scales	0				
	0101	4	7601	Mountain whitefish	278	252	Scales	0				
	0101	4	7602	Mountain whitefish	317	362	Scales	2	FLOY		15969	WHITE
	0101	4	7603	Mountain whitefish	239	172	Scales	2	0			
	0101	4	7604	Mountain whitefish	297	352	Scales	2	PIT			
	0101	4	7605	Mountain whitefish	309	330	Scales	5	0			
	0101	4	7606	Mountain whitefish	301	326	Scales	0	PIT			
	0101	4	7607	Mountain whitefish	347	536	Scales	0	PIT			
	0101	4	7608	Mountain whitefish	312	364	Scales	2	PIT			
	0101	4	7609	Mountain whitefish	325	408	Scales	0	PIT			
	0101	4	7610	Mountain whitefish	324	410	Scales	0	PIT			
	0101	4	7611	Mountain whitefish	323	412	Scales	0	PIT			
	0101	4	7612	Mountain whitefish	308	370	Scales	0	PIT			
	0101	4	7613	Mountain whitefish	325	474	Scales	0	PIT			
	0101	4	7614	Mountain whitefish	249	164	Scales	0				
	0101	4	7615	Mountain whitefish	353	442	Scales	2	FLOY		2015	YELLOW
	0101	4	7616	Mountain whitefish	282	280	Scales	0	PIT			
	0101	4	7617	Mountain whitefish	228	148	Scales	0				
	0101	4	7618	Mountain whitefish	312	328	Scales	4	0	PIT		
	0101	4	7619	Mountain whitefish	313	362	Scales	2	PIT			
	0101	4	7620	Mountain whitefish	294	294	Scales	0	PIT			
	0101	4	7621	Mountain whitefish	258	236	Scales	3	0	PIT		
	0101	4	7622	Mountain whitefish	261	216	Scales	0	PIT			
	0101	4	7623	Mountain whitefish	248	226	Scales	0				
	0101	4	7624	Mountain whitefish	296	312	Scales	0	PIT			
	0101	4	7625	Mountain whitefish	303	386	Scales	0	PIT			
	0101	4	7626	Mountain whitefish	304	360	Scales	2	FLOY		13047	WHITE
	0101	4	7627	Mountain whitefish	300	370	Scales	0	PIT			
	0101	4	7628	Mountain whitefish	299	338	Scales	0	PIT			
	0101	4	7629	Mountain whitefish	283	322	Scales	0	PIT			
	0101	4	7630	Mountain whitefish	280	266	Scales	4	2	PIT		
	0101	4	7631	Mountain whitefish	270	244	Scales	0	PIT			
	0101	4	7632	Mountain whitefish	224	134	Scales	0				
	0101	4	7633	Mountain whitefish	327	422	Scales	2	PIT			
	0101	4	7634	Mountain whitefish	266	260	Scales	0	PIT			
	0101	4	7635	Mountain whitefish	281	346	Scales	0	PIT			
	0101	4	7636	Mountain whitefish	312	378	Scales	2	PIT			
	0101	4	7637	Mountain whitefish	256	226	Scales	0	PIT			
	0101	4	7638	Mountain whitefish	269	236	Scales	0	PIT			
	0101	4	7639	Mountain whitefish	285	304	Scales	2	PIT			
	0101	4	7640	Mountain whitefish	330	464	Scales	0	PIT			
	0101	4	7641	Mountain whitefish	322	378	Scales	2	PIT			

Appendix C Table C1. Biological characteristics data for sampled fish, 2008 Peace River Fish Community Indexing Program.

Area and Site Label	Session	FishID	Common Name	Fork Length (mm)	Weight (gm)	Age Structure	Age	Capture Code	Tag			
									Type	Number	Colour	
1												
		0101	Mountain whitefish	337	386	Scales		2	PIT		:000000247282	
		0101	Mountain whitefish	313	338	Scales		2	PIT		:000000092503	
		0101	Mountain whitefish	310	342	Scales		2	PIT		:000000091184	
		0101	Mountain whitefish	298	322	Scales		2	FLOY		14162	WHITE
		0101	Mountain whitefish	330	474	Scales		0	PIT		:000000110469	
		0101	Mountain whitefish	347	410	Scales		2	PIT		0A00710360	
		0101	Mountain whitefish	258	214	Scales		0	PIT		:000000083874	
		0101	Mountain whitefish	291	312	Scales		0	PIT		:000000073103	
		0101	Mountain whitefish	303	324	Scales		2	PIT		:000000242791	
		0101	Mountain whitefish	312	356	Scales		2	FLOY		5265	YELLOW
		0101	Mountain whitefish	276	296	Scales		0	PIT		:000000087033	
		0101	Mountain whitefish	327	410	Scales	5	2	PIT		:000000245213	
		0101	Mountain whitefish	272	232	Scales		0	PIT		:000000079465	
		0101	Mountain whitefish	278	292	Scales		2	PIT		:000000084711	
		0101	Mountain whitefish	277	268	Scales		0	PIT		:000000109869	
		0101	Mountain whitefish	273	258	Scales		0	PIT		:000000090317	
		0101	Mountain whitefish	276	290	Scales		0	PIT		:000000088908	
		0101	Mountain whitefish	338	396	Scales		2	PIT		0A00710609	
		0101	Mountain whitefish	293	296	Scales		2	PIT		:000000244471	
		0101	Mountain whitefish	260	232	Scales	3	0	PIT		:000000077673	
		0101	Mountain whitefish	312	400	Scales		2	PIT		:000000242010	
		0101	Mountain whitefish	295	304	Scales		0	PIT		:000000078441	
		0101	Mountain whitefish	266	218	Scales		0	PIT		:000000089253	
		0101	Mountain whitefish	257	198	Scales		0	PIT		:000000076971	
		0101	Mountain whitefish	213	106	Scales		0				
		0101	Mountain whitefish	205	110	Scales		0				
		0101	Mountain whitefish	213	104	Scales		0				
		0101	Mountain whitefish	206	102	Scales		0				
		0101	Mountain whitefish	225	128	Scales		0				
		0101	Mountain whitefish	199	94	Scales		0				
		0101	Mountain whitefish	212	108	Scales		0				
		0102	Mountain whitefish	326	440	Scales		0	PIT		:000000077685	
		0102	Mountain whitefish	337	438	Scales		0	PIT		:000000110467	
		0102	Mountain whitefish	328	368	Scales		0	PIT		:000000088114	
		0102	Mountain whitefish	324	362	Scales		2	PIT		:000000088241	
		0102	Mountain whitefish	314	334	Scales	5	0	PIT		:000000084052	
		0102	Mountain whitefish	260	214	Scales		0	PIT		:000000091579	
		0102	Mountain whitefish	300	342	Scales		0	PIT		:000000083566	
		0102	Mountain whitefish	277	254	Scales		0	PIT		:000000090606	
		0102	Mountain whitefish	222	128	Scales		0				
		0102	Mountain whitefish	315	416	Scales		0	PIT		:000000083853	
		0102	Mountain whitefish	262	246	Scales		0	PIT		:000000084836	
		0102	Mountain whitefish	290	342	Scales		0				
		0102	Mountain whitefish	303	348	Scales		0	PIT		:000000086618	
		0102	Mountain whitefish	348	402	Scales		2	PIT		:000000241722	
		0102	Mountain whitefish	254	210	Scales		0	PIT		:000000073073	
		0102	Mountain whitefish	300	320	Scales		0	PIT		:000000087576	
		0102	Mountain whitefish	284	308	Scales		2	PIT		:000000243575	
		0102	Mountain whitefish	334	482	Scales	6	2	PIT		:000000244261	
		0102	Mountain whitefish	264	228	Scales		0	PIT		:000000093715	
		0102	Mountain whitefish	285	332	Scales		0				
		0102	Mountain whitefish	278	304	Scales		0	PIT		:000000083687	
		0102	Mountain whitefish	317	410	Scales		0	PIT		:000000081108	
		0102	Mountain whitefish	280	244	Scales		0	PIT		:000000073146	
		0102	Mountain whitefish	301	274	Scales		0	PIT		:000000084215	
		0102	Mountain whitefish	307	336	Scales		2	FLOY		15419	WHITE
		0102	Mountain whitefish	262	250	Scales		0	PIT		:000000091799	
		0102	Mountain whitefish	302	362	Scales		0				
		0102	Mountain whitefish	341	352	Scales		0	PIT		:000000090746	
		0102	Mountain whitefish	278	260	Scales		0	PIT		:000000090866	
		0102	Mountain whitefish	253	174	Scales		0	PIT		:000000110876	
		0102	Mountain whitefish	215	108	Scales		0				
		0102	Mountain whitefish	295	276	Scales	4	0	PIT		:000000089644	
		0102	Mountain whitefish	300	328	Scales		2	PIT		:000000244382	

Appendix C Table C1. Biological characteristics data for sampled fish, 2008 Peace River Fish Community Indexing Program.

Area and Site Label	Session	FishID	Common Name	Fork Length (mm)	Weight (gm)	Age Structure	Age	Capture Code	Tag			
									Type	Number	Colour	
1												
0109	4	7770	Mountain whitefish	312	386	Scales		2	PIT		000000245996	
0109	4	7771	Mountain whitefish	333	396	Scales		0	PIT		000000090608	
0109	4	7772	Mountain whitefish	353	454	Scales		0	PIT		000000090338	
0109	4	7773	Mountain whitefish	293	282	Scales		2	PIT		4D00020456	
0109	4	7774	Mountain whitefish	307	374	Scales		2	PIT		0A00727670	
0109	4	7775	Mountain whitefish	324	382	Scales		2	PIT		0A00720008	
0109	4	7776	Mountain whitefish	298	276	Scales		0	PIT		000000091197	
0109	4	7777	Mountain whitefish	313	314	Scales		2	PIT		000000247164	
0109	4	7778	Mountain whitefish	319	392	Scales		0	PIT		000000084296	
0109	4	7779	Mountain whitefish	327	412	Scales		0	PIT		000000085250	
0109	4	7780	Mountain whitefish	297	278	Scales		2	FLOY		9705	YELLOW
0109	4	7781	Mountain whitefish	304	320	Scales	5	0	PIT		000000111342	
0109	4	7782	Mountain whitefish	334	442	Scales		2	FLOY		9673	YELLOW
0109	4	7783	Mountain whitefish	245	176	Scales		0				
0109	4	7784	Mountain whitefish	327	352	Scales		2	FLOY		13244	WHITE
0109	4	7785	Mountain whitefish	285	274	Scales	4	0	PIT		000000077367	
0109	4	7786	Mountain whitefish	324	328	Scales		2	FLOY		3678	YELLOW
0109	4	7787	Mountain whitefish	290	284	Scales		0	PIT		000000087122	
0109	4	7788	Mountain whitefish	326	366	Scales		2	PIT		000000092537	
0109	4	7789	Mountain whitefish	277	242	Scales		0	PIT		000000086004	
0109	4	7790	Mountain whitefish	310	356	Scales		0	PIT		000000093280	
0109	4	7791	Mountain whitefish	317	332	Scales		0	PIT		000000091301	
0109	4	7792	Mountain whitefish	320	370	Scales		0	PIT		000000091584	
0109	4	7793	Mountain whitefish	322	358	Scales	6	0	PIT		000000088370	
0109	4	7794	Mountain whitefish	310	314	Scales		0	PIT		000000090462	
0109	4	7795	Mountain whitefish	290	308	Scales	4	0	PIT		000000081580	
0109	4	7796	Mountain whitefish	313	384	Scales		0	PIT		000000091441	
0109	4	7797	Mountain whitefish	305	352	Scales		0	PIT		000000087134	
0109	4	7798	Mountain whitefish	328	346	Scales		0	PIT		000000077813	
0109	4	7799	Mountain whitefish	322	376	Scales		2	PIT		000000082561	
0109	4	7800	Mountain whitefish	343	464	Scales		0				
0109	4	7801	Mountain whitefish	319	396	Scales		0	PIT		000000087583	
0109	4	7802	Mountain whitefish	327	356	Scales		2	PIT		000000243280	
0109	4	7803	Mountain whitefish	313	434	Scales		0	PIT		000000092061	
0109	4	7804	Mountain whitefish	334	400	Scales		0	PIT		000000077520	
0109	4	7805	Mountain whitefish	346	400	Scales	7	0	PIT		000000088366	
0109	4	7806	Mountain whitefish	230	128	Scales		0				
0109	4	7807	Mountain whitefish	317	366	Scales		0	PIT		000000080384	
0109	4	7808	Mountain whitefish	345	322	Scales		2	FLOY		3161	ORANGE
0109	4	7809	Mountain whitefish	265	250	Scales		0	PIT		000000093363	
0109	4	7810	Mountain whitefish	291	346	Scales	5	0	PIT		000000088397	
0109	4	7811	Mountain whitefish	300	298	Scales		0	PIT		000000083574	
0109	4	7812	Mountain whitefish	268	272	Scales		0	PIT		000000087712	
0109	4	7813	Mountain whitefish	320	388	Scales		0	PIT		000000090602	
0109	4	7814	Mountain whitefish	328	426	Scales		0	PIT		000000092273	
0109	4	7815	Mountain whitefish	328	400	Scales		0	PIT		000000081472	
0109	4	7816	Mountain whitefish	294	336	Scales		2	PIT		0A00711350	
0109	4	7817	Mountain whitefish	336	416	Scales	7	2	PIT		0A00710720	
0109	4	7818	Mountain whitefish	297	314	Scales		0	PIT		000000088091	
0109	4	7819	Mountain whitefish	291	288	Scales		0	PIT		000000091189	
0109	4	7820	Mountain whitefish	327	432	Scales		2	PIT		000000089381	
0109	4	7821	Mountain whitefish	330	444	Scales		0	PIT		000000110362	
0109	4	7822	Mountain whitefish	290	290	Scales		0	PIT		000000111983	
0109	4	7823	Mountain whitefish	310	342	Scales		0	PIT		000000076421	
0109	4	7824	Mountain whitefish	246	172	Scales		0				
0109	4	7825	Mountain whitefish	322	370	Scales		2	PIT		000000243977	
0109	4	7826	Mountain whitefish	315	336	Scales		0	PIT		000000084321	
0109	4	7827	Mountain whitefish	282	264	Scales		0	PIT		000000083958	
0109	4	7828	Mountain whitefish	330	356	Scales		0	PIT		000000086745	
0109	4	7829	Mountain whitefish	284	288	Scales		0	PIT		000000081826	
0109	4	7830	Mountain whitefish	296	310	Scales		2	PIT		000000238541	
0109	4	7831	Mountain whitefish	309	314	Scales		2	PIT		000000245395	
0109	4	7832	Mountain whitefish	295	288	Scales		0	PIT		000000088237	
0109	4	7833	Mountain whitefish	316	382	Scales		2	FLOY		15178	WHITE

Appendix C Table C1. Biological characteristics data for sampled fish, 2008 Peace River Fish Community Indexing Program.

Area and Site Label	Session	FishID	Common Name	Fork Length (mm)	Weight (gm)	Age Structure	Age	Capture Code	Tag			
									Type	Number	Colour	
1												
0109	4	7834	Mountain whitefish	285	286	Scales		0	PIT		000000091106	
0109	4	7835	Mountain whitefish	294	338	Scales		0	PIT		000000086111	
0109	4	7836	Mountain whitefish	265	204	Scales		0	PIT		000000083726	
0109	4	7837	Mountain whitefish	256	202	Scales		0	PIT		000000090195	
0109	4	7838	Mountain whitefish	310	336	Scales		0	PIT		000000110470	
0109	4	7839	Kokanee	201				0				
0109	4	7840	Mountain whitefish	317	428	Scales		0	PIT		000000089791	
0109	4	7841	Mountain whitefish	283	270	Scales		0	PIT		999999999999	
0109	4	7842	Mountain whitefish	281	278	Scales		0	PIT		000000079719	
0109	4	7843	Mountain whitefish	267	242	Scales		0	PIT		000000088653	
0109	4	7844	Mountain whitefish	281	282	Scales		0	PIT		000000111067	
0109	4	7845	Mountain whitefish	289	296	Scales		0	PIT		000000090466	
0109	4	7846	Mountain whitefish	318	382	Scales		0	PIT		000000089795	
0109	4	7847	Mountain whitefish	328	350	Scales		0	PIT		000000087404	
0109	4	7848	Mountain whitefish	278	268	Scales		0	PIT		000000091344	
0109	4	7849	Mountain whitefish	332	386	Scales		0	PIT		000000086460	
0109	4	7850	Mountain whitefish	252	182	Scales		0	PIT		000000084420	
0109	4	7851	Mountain whitefish	320	386	Scales		2	PIT		0A00710658	
0109	4	7852	Mountain whitefish	288	274	Scales		5	2	PIT	000000244171	
0109	4	7853	Mountain whitefish	332	398	Scales		0	PIT		000000088880	
0109	4	7854	Mountain whitefish	257	196	Scales		0	PIT		000000084053	
0109	4	7855	Mountain whitefish	297	264	Scales		0	PIT		000000081941	
0109	4	7856	Mountain whitefish	334	494	Scales		6	0	PIT	000000086881	
0109	4	7857	Mountain whitefish	209	108	Scales		0				
0109	4	7858	Mountain whitefish	324	372	Scales		2	FLOY		14289	WHITE
0109	4	7859	Mountain whitefish	328	354	Scales		2	PIT		000000244216	
0109	4	7860	Mountain whitefish	280	286	Scales		2	PIT		000000244756	
0109	4	7861	Mountain whitefish	254	196	Scales		0	PIT		000000093119	
0109	4	7862	Mountain whitefish	297	310	Scales		0	PIT		000000078891	
0109	4	7863	Mountain whitefish	244	168	Scales		0				
0110	4	7864	Mountain whitefish	305	352	Scales		5	0			
0110	4	7865	Mountain whitefish	327	370	Scales		0	PIT		000000082549	
0110	4	7866	Mountain whitefish	260	234	Scales		0	PIT		000000080393	
0110	4	7867	Mountain whitefish	279	250	Scales		0	PIT		000000077791	
0110	4	7868	Mountain whitefish	298	276	Scales		2	FLOY		9705	YELLOW
0110	4	7869	Mountain whitefish	280	282	Scales		0	PIT		000000080861	
0110	4	7870	Mountain whitefish	327	356	Scales		0	PIT		000000089620	
0110	4	7871	Mountain whitefish	304	314	Scales		5	0	PIT	000000091936	
0110	4	7872	Mountain whitefish	307	332	Scales		0	PIT		000000088783	
0110	4	7873	Mountain whitefish	334	376	Scales		0	PIT		000000087551	
0110	4	7874	Mountain whitefish	316	356	Scales		0	PIT		000000073214	
0110	4	7875	Mountain whitefish	314	336	Scales		0	PIT		000000079220	
0110	4	7876	Mountain whitefish	305	330	Scales		0	PIT		000000078697	
0110	4	7877	Mountain whitefish	337	426	Scales		0	PIT		000000073225	
0110	4	7878	Mountain whitefish	297	304	Scales		0	PIT		000000090978	
0110	4	7879	Mountain whitefish	250	180	Scales		0	PIT		000000093574	
0110	4	7880	Mountain whitefish	275	236	Scales		0	PIT		000000110191	
0110	4	7881	Mountain whitefish	282	284	Scales		2	PIT		000000246637	
0110	4	7882	Mountain whitefish	254	196	Scales		3	0	PIT	000000087276	
0110	4	7883	Mountain whitefish	292	312	Scales		0	PIT		000000087706	
0110	4	7884	Mountain whitefish	250	192	Scales		0	PIT		000000113081	
0110	4	7885	Mountain whitefish	224	132	Scales		0				
0110	4	7886	Mountain whitefish	249	168	Scales		3	0			
0110	4	7887	Mountain whitefish	197	90	Scales		0				
0110	4	7888	Mountain whitefish	211	108	Scales		0				
0110	4	7889	Kokanee	129	24			0				
0110	4	7890	Kokanee	122	16			0				
0110	4	7891	Longnose sucker	132	16			0				
0110	4	7892	Longnose sucker	141	32			0				
0110	4	7893	Longnose sucker	119	20			0				
0111	4	7894	Longnose sucker	405	900			0				
0111	4	7895	Kokanee	252	173			0				
0111	4	7896	Mountain whitefish	260	214	Scales		2	PIT		000000248282	
0111	4	7897	Mountain whitefish	275	244	Scales		2	PIT		000000243398	

Appendix C Table C1. Biological characteristics data for sampled fish, 2008 Peace River Fish Community Indexing Program.

Area and Site Label	Session	FishID	Common Name	Fork Length (mm)	Weight (gm)	Age Structure	Age	Capture Code	Tag		
									Type	Number	Colour
1											
	0111	4	7898	Mountain whitefish	228	140	Scales	0			
	0111	4	7899	Mountain whitefish	336	474	Scales	2	PIT	0A00723420	
	0111	4	7900	Mountain whitefish	265	206	Scales	0	PIT	000000078817	
	0111	4	7901	Mountain whitefish	218	136	Scales	0			
	0111	4	7902	Mountain whitefish	225	140	Scales	0			
	0111	4	7903	Mountain whitefish	249	168	Scales	0			
	0111	4	7904	Mountain whitefish	252	176	Scales	0	PIT	000000109968	
	0111	4	7905	Kokanee	214	118		0			
	0111	4	7906	Mountain whitefish	234	146	Scales	0			
	0111	4	7907	Mountain whitefish	210	116	Scales	0			
	0111	4	7908	Mountain whitefish	220	114	Scales	0			
	0111	4	7909	Mountain whitefish	318	366	Scales	2	PIT	0A00726006	
	0111	4	7910	Mountain whitefish	266	214	Scales	3	0	PIT	000000110501
	0111	4	7911	Mountain whitefish	202	98	Scales	0			
	0111	4	7912	Mountain whitefish	340	424	Scales	0	PIT	000000089009	
	0111	4	7913	Mountain whitefish	200	106	Scales	0			
	0111	4	7914	Mountain whitefish	276	242	Scales	0	PIT	000000111350	
	0111	4	7915	Mountain whitefish	172	50	Scales	0			
	0111	4	7916	Kokanee	116	16		0			
	0111	4	7917	Mountain whitefish	295	308	Scales	0	PIT	000000073156	
	0111	4	7918	Mountain whitefish	272	230	Scales	0	PIT	000000090715	
	0111	4	7919	Mountain whitefish	231	132	Scales	0			
	0111	4	7920	Mountain whitefish	302	308	Scales	2	FLOY	15529	WHITE
	0111	4	7921	Mountain whitefish	331	424	Scales	0	PIT	000000078350	
	0111	4	7922	Rainbow trout	311	306		0			
	0111	4	7923	Mountain whitefish	248	198	Scales	3	0		
	0111	4	7924	Mountain whitefish	225	126	Scales	0			
	0111	4	7925	Mountain whitefish	291	244	Scales	4	0	PIT	000000109845
	0111	4	7926	Mountain whitefish	205	104	Scales	0			
	0111	4	7927	Mountain whitefish	205	100	Scales	0			
	0111	4	7928	Mountain whitefish	212	108	Scales	0			
	0111	4	7929	Mountain whitefish	313	384	Scales	0	PIT	000000089487	
	0111	4	7930	Mountain whitefish	274	260	Scales	0	PIT	000000084292	
	0111	4	7931	Mountain whitefish	261	220	Scales	0	PIT	000000090822	
	0111	4	7932	Mountain whitefish	220	122	Scales	0			
	0111	4	7933	Mountain whitefish	266	250	Scales	0	PIT	000000083782	
	0111	4	7934	Mountain whitefish	310	360	Scales	0	PIT	000000087034	
	0111	4	7935	Bull trout	322	410	Fin Ray	3	0	PIT	000000085492
	0112	4	7936	Mountain whitefish	253	206	Scales	0			
	0112	4	7937	Mountain whitefish	259	230	Scales	0			
	0112	4	7938	Mountain whitefish	243	142	Scales	0			
	0112	4	7939	Kokanee	245	182		0			
	0112	4	7940	Mountain whitefish	308	386	Scales	0	PIT	000000085062	
	0112	4	7941	Mountain whitefish	204	104	Scales	0			
	0112	4	7942	Mountain whitefish	266	216	Scales	0	PIT	000000087448	
	0112	4	7943	Mountain whitefish	337	470	Scales	2	PIT	000000083535	
	0112	4	7944	Mountain whitefish	342	376	Scales	2	PIT	4D00031071	
	0112	4	7945	Mountain whitefish	330	406	Scales	0	PIT	000000083067	
	0112	4	7946	Mountain whitefish	228	132	Scales	2	0		
	0112	4	7947	Mountain whitefish	294	308	Scales	2	PIT	000000239424	
	0112	4	7948	Mountain whitefish	212	108	Scales	0			
	0112	4	7949	Mountain whitefish	220	126	Scales	2	0		
	0112	4	7950	Mountain whitefish	270	266	Scales	2	PIT	000000239356	
	0112	4	7951	Mountain whitefish	198	90	Scales	0			
	0112	4	7952	Mountain whitefish	274	276	Scales	0	PIT	000000084332	
	0112	4	7953	Mountain whitefish	273	242	Scales	0	PIT	000000093885	
	0112	4	7954	Mountain whitefish	310	338	Scales	0	PIT	000000078902	
	0112	4	7955	Mountain whitefish	309	362	Scales	2	PIT	000000239131	
	0112	4	7956	Mountain whitefish	328	378	Scales	2	PIT	000000238622	
	0112	4	7957	Mountain whitefish	257	198	Scales	3	0	PIT	000000083487
	0112	4	7958	Mountain whitefish	206	100	Scales	0			
	0112	4	7959	Mountain whitefish	232	132	Scales	0			
	0112	4	7960	Mountain whitefish	278	244	Scales	2	PIT	000000077389	
	0112	4	7961	Mountain whitefish	272	216	Scales	0	PIT	000000084518	

Appendix C Table C1. Biological characteristics data for sampled fish, 2008 Peace River Fish Community Indexing Program.

Area and Site Label	Session	FishID	Common Name	Fork Length (mm)	Weight (gm)	Age Structure	Age	Capture Code	Tag				
									Type	Number	Colour		
1													
		0112	4	7962	Mountain whitefish	285	278	Scales		0	PIT	:000000076425	
		0112	4	7963	Mountain whitefish	354	405	Scales		0	PIT	:000000083779	
		0112	4	7964	Mountain whitefish	176	64	Scales		0			
		0112	4	7965	Rainbow trout	112	16			0			
		0112	4	7966	Mountain whitefish	282	276	Scales		2	PIT	:000000244293	
		0112	4	7967	Mountain whitefish	293	338	Scales		5	0	PIT	:000000092402
		0112	4	7968	Rainbow trout	113	18			0			
		0112	4	7969	Mountain whitefish	319	332	Scales		2	FLOY	3304	ORANGE
		0112	4	7970	Mountain whitefish	265	244	Scales		0	PIT	:000000110773	
		0112	4	7971	Mountain whitefish	279	258	Scales		0	PIT	:000000082051	
		0112	4	7972	Mountain whitefish	229	126	Scales		0			
		0112	4	7973	Mountain whitefish	232	156	Scales		3	0		
		0112	4	7974	Rainbow trout	117	26			0			
		0112	4	7975	Mountain whitefish	156	46	Scales		0			
		0112	4	7976	Mountain whitefish	265	220	Scales		0	PIT	:000000087678	
		0112	4	7977	Mountain whitefish	300	306	Scales		0	PIT	:000000077116	
		0113	4	7978	Rainbow trout	453	898			0			
		0113	4	7979	Longnose sucker	451	1260			0			
		0113	4	7980	Mountain whitefish	368	580	Scales		0	PIT	:000000092047	
		0113	4	7981	Mountain whitefish	296	308	Scales		2	PIT	:000000245813	
		0113	4	7982	Mountain whitefish	360	472	Scales		0	PIT	:000000090966	
		0113	4	7983	Mountain whitefish	329	382	Scales		0	PIT	:000000084607	
		0113	4	7984	Mountain whitefish	371	544	Scales		2	FLOY	13269	WHITE
		0113	4	7985	Mountain whitefish	271	214	Scales		0			
		0113	4	7986	Mountain whitefish	312	314	Scales		0	PIT	:000000086591	
		0113	4	7987	Mountain whitefish	299	308	Scales		0	PIT	:000000112347	
		0113	4	7988	Mountain whitefish	268	228	Scales		0	PIT	:000000092918	
		0113	4	7989	Mountain whitefish	285	254	Scales		0	PIT	:000000093813	
		0113	4	7990	Mountain whitefish	335	362	Scales		0	PIT	:000000089127	
		0113	4	7991	Mountain whitefish	315	332	Scales		2	PIT	:000000242657	
		0113	4	7992	Mountain whitefish	337	414	Scales		2	PIT	4D00030343	
		0113	4	7993	Mountain whitefish	284	288	Scales		0	PIT	:000000111208	
		0113	4	7994	Mountain whitefish	313	378	Scales		2	PIT	4D00026960	
		0113	4	7995	Mountain whitefish	275	276	Scales		0			
		0113	4	7996	Mountain whitefish	334	432	Scales		2	PIT	4D00031463	
		0113	4	7997	Mountain whitefish	333	394	Scales		0	PIT	:000000089147	
		0113	4	7998	Mountain whitefish	300	292	Scales		2	PIT	:000000242144	
		0113	4	7999	Mountain whitefish	264	250	Scales		0	PIT	:000000073155	
		0113	4	8000	Mountain whitefish	358	464	Scales		0	PIT	:000000086009	
		0113	4	8001	Mountain whitefish	258	192	Scales		0	PIT	:000000093668	
		0113	4	8002	Mountain whitefish	323	360	Scales		0	PIT	:000000089140	
		0113	4	8003	Mountain whitefish	306	318	Scales		0	PIT	:000000090985	
		0113	4	8004	Mountain whitefish	305	330	Scales		0	PIT	:000000079580	
		0113	4	8005	Mountain whitefish	268	230	Scales		0	PIT	:000000091212	
		0113	4	8006	Mountain whitefish	330	400	Scales		2	FLOY	15227	WHITE
		0113	4	8007	Mountain whitefish	287	266	Scales		0	PIT	:000000110620	
		0113	4	8008	Mountain whitefish	349	478	Scales		2	PIT	0A00723420	
		0113	4	8009	Mountain whitefish	258	200	Scales		0	PIT	:000000091332	
		0113	4	8010	Mountain whitefish	281	254	Scales		0	PIT	:000000091911	
		0113	4	8011	Mountain whitefish	324	396	Scales		0	PIT	:000000093505	
		0113	4	8012	Mountain whitefish	280	260	Scales		2	PIT	:000000241837	
		0113	4	8013	Mountain whitefish	281	264	Scales		0	PIT	:000000091302	
		0113	4	8014	Mountain whitefish	285	288	Scales		0	PIT	:000000109614	
		0113	4	8015	Mountain whitefish	306	300	Scales		2	PIT	4D00027366	
		0113	4	8016	Mountain whitefish	267	218	Scales		3	0	PIT	:000000073110
		0113	4	8017	Mountain whitefish	280	270	Scales		0	PIT	:000000078784	
		0113	4	8018	Mountain whitefish	191	74	Scales		0			
		0113	4	8019	Mountain whitefish	247	176	Scales		0	PIT	:000000109867	
		0113	4	8020	Mountain whitefish	223	128	Scales		0			
		0113	4	8021	Mountain whitefish	255	170	Scales		0	PIT	:000000088875	
		0116	4	8022	Mountain whitefish	320	396	Scales		0	PIT	:000000088522	
		0116	4	8023	Mountain whitefish	313	318	Scales		2	FLOY	13313	WHITE
		0116	4	8024	Mountain whitefish	294	284	Scales		0	PIT	:000000083565	
		0116	4	8025	Mountain whitefish	278	292	Scales		0	PIT	:000000104365	

Appendix C Table C1. Biological characteristics data for sampled fish, 2008 Peace River Fish Community Indexing Program.

Area and Site Label	Session	FishID	Common Name	Fork Length (mm)	Weight (gm)	Age Structure	Age	Capture Code	Tag		
									Type	Number	Colour
1											
		0116	Mountain whitefish	419	732	Scales		0	PIT		:000000110637
		0116	Mountain whitefish	296	306	Scales		0	PIT		:000000090736
		0116	Mountain whitefish	282	248	Scales		0	PIT		:000000084579
		0116	Mountain whitefish	373	608	Scales		2	PIT		:000000238493
		0116	Mountain whitefish	317	352	Scales	7	0			
		0116	Mountain whitefish	166	52	Scales		0			
		0116	Mountain whitefish	235	152	Scales		0			
		0116	Mountain whitefish	270	226	Scales		0	PIT		:000000093535
		0116	Mountain whitefish	315	306	Scales		2	FLOY	5373	YELLOW
		0114	Mountain whitefish	294	288	Scales		2	PIT		:000000243181
		0114	Northern pike	455	812			0			
		0114	Rainbow trout	118	16			0			
		0114	Mountain whitefish	261	230	Scales	3	0	PIT		:000000084939
		0114	Mountain whitefish	298	278	Scales		0	PIT		:000000078812
		0114	Mountain whitefish	302	348	Scales		2	FLOY	15337	WHITE
		0114	Mountain whitefish	274	270	Scales	3	0	PIT		:000000083720
		0114	Mountain whitefish	277	254	Scales		0	PIT		:000000110348
		0114	Mountain whitefish	310	366	Scales		0	PIT		:000000085772
		0114	Mountain whitefish	312	308	Scales		2	FLOY	9850	YELLOW
		0114	Mountain whitefish	285	264	Scales		2	PIT		:000000247031
		0114	Rainbow trout	203	110			0			
		0114	Mountain whitefish	285	296	Scales		0	PIT		:000000077397
		0114	Mountain whitefish	286	278	Scales		2	FLOY	8355	YELLOW
		0114	Mountain whitefish	327	362	Scales		2	FLOY	15267	WHITE
		0114	Mountain whitefish	277	262	Scales	5	2	PIT	0A00710373	
		0114	Mountain whitefish	318	370	Scales		0	PIT		:000000090990
		0114	Mountain whitefish	268	228	Scales		0	PIT		:000000110910
		0114	Mountain whitefish	287	308	Scales		0	PIT		:000000078544
		0114	Mountain whitefish	338	452	Scales		2	PIT		:000000244754
		0114	Mountain whitefish	302	338	Scales		0	PIT		:000000076555
		0114	Mountain whitefish	279	294	Scales		0	PIT		:000000089226
		0114	Mountain whitefish	332	408	Scales		0	PIT		:000000090312
		0114	Mountain whitefish	238	200	Scales		0			
		0114	Mountain whitefish	242	190	Scales		0			
		0114	Mountain whitefish	262	210	Scales		0	PIT		:000000089892
		0114	Mountain whitefish	255	198	Scales	3	0	PIT		:000000080516
		0114	Rainbow trout	182	84			0			
		0114	Mountain whitefish	300	330	Scales	4	2	PIT		:000000237888
		0114	Mountain whitefish	451	1052	Scales		0	PIT		:000000083763
		0114	Mountain whitefish	335	392	Scales		2	PIT		:000000238434
		0114	Mountain whitefish	295	332	Scales		0	PIT		:000000089789
		0114	Mountain whitefish	305	322	Scales		2	PIT		:000000238627
		0114	Mountain whitefish	313	360	Scales	4	2	PIT		:000000237814
		0114	Mountain whitefish	264	228	Scales		2	PIT		:000000247173
		0114	Mountain whitefish	343	430	Scales		0	PIT		:000000083582
		0114	Mountain whitefish	300	316	Scales	5	0	PIT		:000000093096
		0114	Mountain whitefish	325	362	Scales		0	PIT		:000000085019
		0114	Rainbow trout	159	44			0			
		0114	Rainbow trout	132	26			0			
		0114	Mountain whitefish	271	226	Scales		0	PIT		:000000087568
		0114	Mountain whitefish	321	366	Scales		0	PIT		:000000110471
		0114	Mountain whitefish	315	346	Scales	6	0	PIT		:000000111014
		0114	Mountain whitefish	317	334	Scales		2	FLOY	8337	YELLOW
		0114	Mountain whitefish	303	374	Scales		0	PIT		:000000091192
		0114	Mountain whitefish	262	202	Scales		0	PIT		:000000110634
		0114	Mountain whitefish	311	306	Scales		2	FLOY	8368	YELLOW
		0103	Bull trout	289		Fin Ray	3	0	PIT		:000000078565
		0103	Rainbow trout	302				0			
		0103	Mountain whitefish	312				2	PIT		:000000239039
		0103	Rainbow trout	194				0			
		0105	Bull trout	343		Fin Ray	3	0	PIT		:000000109956
		0105	Mountain whitefish	307				2	PIT		:000000088797
		0105	Mountain whitefish	289				2	PIT	4D00042055	
		0105	Mountain whitefish	342				2	FLOY	9487	YELLOW

Appendix C Table C1. Biological characteristics data for sampled fish, 2008 Peace River Fish Community Indexing Program.

Area and Site Label	Session	FishID	Common Name	Fork Length (mm)	Weight (gm)	Age Structure	Age	Capture Code	Tag			
									Type	Number	Colour	
1												
	0105	5	9938	Mountain whitefish	330			2	FLOY	2252	YELLOW	
	0105	5	9939	Mountain whitefish	283			2	PIT	4D00032023		
	0105	5	9940	Mountain whitefish	348			2	PIT	000000245444		
	0105	5	9941	Mountain whitefish	300			2	FLOY	2244	YELLOW	
	0105	5	9942	Mountain whitefish	290			2	PIT	000000239874		
	0105	5	9943	Mountain whitefish	346			2	FLOY	2249	YELLOW	
	0104	5	9979	Mountain whitefish	289			2	PIT	0A00727544		
	0104	5	9980	Mountain whitefish	278			2	PIT	000000245380		
	0104	5	9981	Mountain whitefish	265			2	PIT	000000245619		
	0104	5	9982	Mountain whitefish	311			2	FLOY	9411	YELLOW	
	0104	5	9983	Mountain whitefish	314			2	PIT	000000239039		
	0104	5	9984	Mountain whitefish	325			5	PIT	000000087396		
	0104	5	9985	Mountain whitefish	258			2	PIT	000000084478		
	0104	5	9986	Mountain whitefish	310			2	PIT	4D00044230		
	0101	5	10032	Mountain whitefish	292			2	PIT	000000246369		
	0101	5	10033	Mountain whitefish	286			2	PIT	0A00706316		
	0101	5	10034	Mountain whitefish	295			2	PIT	000000241848		
	0101	5	10035	Mountain whitefish	288			2	PIT	000000109520		
	0101	5	10036	Mountain whitefish	315			2	PIT	000000092503		
	0101	5	10037	Mountain whitefish	334			2	FLOY	4940	YELLOW	
	0101	5	10038	Mountain whitefish	324			2	FLOY	14153	WHITE	
	0101	5	10039	Mountain whitefish	331			2	PIT	000000110469		
	0101	5	10040	Mountain whitefish	335			2	PIT	000000242095		
	0101	5	10041	Mountain whitefish	314			2	PIT	000000242829		
	0101	5	10042	Mountain whitefish	271			2	PIT	000000239579		
	0101	5	10043	Mountain whitefish	311			2	FLOY	15941	WHITE	
	0101	5	10044	Mountain whitefish	319			2	PIT	0A00711850		
	0102	5	10088	Mountain whitefish	322			2	PIT	000000083628		
	0102	5	10089	Mountain whitefish	324			2	PIT	4D00031855		
	0102	5	10090	Mountain whitefish	331			2	PIT	000000245523		
	0102	5	10091	Mountain whitefish	334			2	FLOY	15432	WHITE	
	0102	5	10092	Mountain whitefish	323			2	FLOY	8101	YELLOW	
	0102	5	10093	Mountain whitefish	332			2	PIT	000000242519		
	0106	5	10127	Bull trout	463			5	2	PIT	000000245836	
	0106	5	10128	Bull trout	382		Fin Ray	4	0	PIT	000000073169	
	0106	5	10129	Rainbow trout	450				0			
	0106	5	10130	Mountain whitefish	275			2	PIT	000000247202		
	0108	5	10165	Bull trout	476		Fin Ray	4	0	PIT	000000078913	
	0108	5	10166	Mountain whitefish	308			2	PIT	000000088229		
	0108	5	10167	Mountain whitefish	385			2	FLOY	15157	WHITE	
	0108	5	10168	Mountain whitefish	329			2	FLOY	13273	WHITE	
	0108	5	10169	Bull trout	335		Fin Ray	3	0	PIT	000000083674	
	0108	5	10170	Mountain whitefish	378			2	FLOY	11896	WHITE	
	0108	5	10171	Mountain whitefish	271			2	PIT	000000243721		
	0108	5	10172	Mountain whitefish	345			2	FLOY	13169	WHITE	
	0108	5	10173	Mountain whitefish	300			2	PIT	000000246571		
	0108	5	10174	Mountain whitefish	319			2	FLOY	11936	WHITE	
	0108	5	10175	Mountain whitefish	306			2	PIT	000000111342		
	0108	5	10176	Mountain whitefish	311			2	PIT	0A00723914		
	0108	5	10177	Mountain whitefish	295			2	PIT	0A00726458		
	0108	5	10178	Mountain whitefish	346			2	PIT	0A00746070		
	0109	5	10209	Mountain whitefish	334			2	PIT	000000244477		
	0109	5	10210	Mountain whitefish	352			2	PIT	000000077100		
	0109	5	10211	Mountain whitefish	310			2	FLOY	16435	WHITE	
	0109	5	10212	Mountain whitefish	296			2	PIT	000000246561		
	0109	5	10213	Mountain whitefish	340			2	PIT	000000240638		
	0109	5	10214	Mountain whitefish	327			2	PIT	000000244767		
	0109	5	10215	Mountain whitefish	324			2	PIT	000000239192		
	0109	5	10216	Mountain whitefish	338			2	FLOY	2140	YELLOW	
	0109	5	10217	Mountain whitefish	306			2	PIT	000000079220		
	0109	5	10218	Mountain whitefish	312			2	FLOY	5086	YELLOW	
	0109	5	10219	Mountain whitefish	315			2	PIT	000000247037		
	0109	5	10220	Mountain whitefish	320			2	PIT	4D00020240		
	0109	5	10221	Mountain whitefish	314			2	PIT	000000239278		

Appendix C Table C1. Biological characteristics data for sampled fish, 2008 Peace River Fish Community Indexing Program.

Area and Site Label	Session	FishID	Common Name	Fork Length (mm)	Weight (gm)	Age Structure	Age	Capture Code	Tag		
									Type	Number	Colour
1											
	0109	5	10222	Mountain whitefish	307			2	FLOY	3131	ORANGE
	0109	5	10223	Mountain whitefish	349			2	FLOY	11913	WHITE
	0109	5	10224	Mountain whitefish	291			2	PIT	:000000087122	
	0109	5	10225	Mountain whitefish	320			2	FLOY	2141	YELLOW
	0109	5	10226	Mountain whitefish	322			2	PIT	4D00024015	
	0109	5	10227	Mountain whitefish	337			2	PIT	:000000246991	
	0109	5	10228	Mountain whitefish	316			2	PIT	:000000246098	
	0109	5	10229	Mountain whitefish	299			2	PIT	:000000238866	
	0109	5	10230	Mountain whitefish	339			2	PIT	:000000073063	
	0109	5	10231	Mountain whitefish	322			2	PIT	:000000087163	
	0109	5	10232	Mountain whitefish	335			2	FLOY	2130	YELLOW
	0109	5	10233	Mountain whitefish	306			2	PIT	0A00721308	
	0109	5	10234	Mountain whitefish	297			2	PIT	:000000238541	
	0109	5	10235	Mountain whitefish	310			2	PIT	:000000241940	
	0109	5	10236	Mountain whitefish	448			2	PIT	:000000083763	
	0109	5	10237	Mountain whitefish	284			2	PIT	:000000110223	
	0109	5	10238	Mountain whitefish	338			2	PIT	4D00014716	
	0109	5	10239	Mountain whitefish	332			2	FLOY	14281	WHITE
	0109	5	10240	Mountain whitefish	300			2	PIT	:000000076421	
	0109	5	10241	Mountain whitefish	315			2	PIT	:000000089791	
	0109	5	10242	Mountain whitefish	319			2	FLOY	14315	WHITE
	0109	5	10243	Mountain whitefish	327			2	PIT	:000000243739	
	0109	5	10244	Mountain whitefish	304			2	PIT	:000000077918	
	0109	5	10245	Mountain whitefish	295			2	PIT	:000000090334	
	0110	5	10318	Rainbow trout	408			0			
	0110	5	10319	Kokanee	218			0			
	0110	5	10320	Bull trout	319		Fin Ray	3	0	PIT	:000000079457
	0110	5	10321	Mountain whitefish	295			2	PIT	:000000248019	
	0110	5	10322	Mountain whitefish	327			2	PIT	4D00033640	
	0110	5	10323	Mountain whitefish	281			2	PIT	4D00025564	
	0110	5	10324	Kokanee	136			0			
	0110	5	10325	Mountain whitefish	264			2	PIT	:000000243721	
	0110	5	10326	Kokanee	208			0			
	0110	5	10327	Mountain whitefish	268			2	PIT	:000000243862	
	0110	5	10328	Rainbow trout	290			0			
	0110	5	10329	Kokanee	220			0			
	0110	5	10330	Mountain whitefish	302			2	PIT	:000000241217	
	0110	5	10331	Kokanee	209			0			
	0111	5	10372	Bull trout	770	5190	Fin Ray	7	0	PIT	:000000110468
	0111	5	10373	Mountain whitefish	277			2	PIT	:000000084292	
	0111	5	10374	Mountain whitefish	286			2	PIT	:000000241963	
	0111	5	10375	Mountain whitefish	307			2	PIT	:000000237915	
	0111	5	10376	Mountain whitefish	368			2	FLOY	14407	WHITE
	0111	5	10377	Rainbow trout	238			0			
	0111	5	10378	Mountain whitefish	337			2	FLOY	13475	WHITE
	0111	5	10379	Mountain whitefish	272			2	PIT	:000000247644	
	0111	5	10380	Rainbow trout	229			0			
	0111	5	10381	Rainbow trout	175			0			
	0113	5	10429	Mountain whitefish	333			2	FLOY	15227	WHITE
	0113	5	10430	Bull trout	344		Fin Ray	3	0	PIT	:000000089641
	0113	5	10431	Mountain whitefish	311			2	PIT	:000000238372	
	0113	5	10432	Mountain whitefish	318			2	PIT	:000000243134	
	0113	5	10433	Mountain whitefish	323			2	PIT	:000000239766	
	0113	5	10434	Mountain whitefish	369			2	PIT	:000000092047	
	0113	5	10435	Mountain whitefish	308			2	PIT	4D00024730	
	0113	5	10436	Mountain whitefish	305			2	FLOY	15228	WHITE
	0113	5	10437	Mountain whitefish	343			2	FLOY	9718	YELLOW
	0113	5	10438	Mountain whitefish	285			2	PIT	:000000109614	
	0113	5	10439	Mountain whitefish	318			2	FLOY	3889	YELLOW
	0116	5	10465	Mountain whitefish	310			2	PIT	0A00751453	
	0116	5	10466	Mountain whitefish	349			2	FLOY	8292	YELLOW
	0116	5	10467	Mountain whitefish	290			2	PIT	:000000243482	
	0112	5	10485	Kokanee	260			0			
	0112	5	10486	Mountain whitefish	321			2	FLOY	5226	YELLOW

Appendix C Table C1. Biological characteristics data for sampled fish, 2008 Peace River Fish Community Indexing Program.

Area and Site Label	Session	FishID	Common Name	Fork Length (mm)	Weight (gm)	Age Structure	Age	Capture Code	Tag		
									Type	Number	Colour
1											
	0112	5	10487	Rainbow trout	205			0			
	0112	5	10488	Mountain whitefish	305			2	FLOY	3337	ORANGE
	0112	5	10489	Mountain whitefish	347			2	FLOY	5256	YELLOW
	0112	5	10490	Bull trout	333		Fin Ray	3	0	PIT	:000000086351
	0112	5	10491	Mountain whitefish	305			2	FLOY	6651	YELLOW
	0112	5	10492	Mountain whitefish	342			2	FLOY	9718	YELLOW
	0112	5	10493	Mountain whitefish	318			2	FLOY	2358	YELLOW
	0112	5	10494	Rainbow trout	208			0			
	0112	5	10495	Rainbow trout	222			0			
	0112	5	10496	Mountain whitefish	333			2	PIT	:000000244807	
	0112	5	10497	Mountain whitefish	290			2	PIT	:000000238098	
	0112	5	10498	Mountain whitefish	276			2	PIT	:000000084292	
	0112	5	10499	Mountain whitefish	283			2	PIT	4D00027467	
	0112	5	10500	Bull trout	313			2	PIT	:000000247008	
	0112	5	10501	Mountain whitefish	304			2	PIT	:000000093716	
	0112	5	10502	Mountain whitefish	294			2	PIT	4D00032802	
	0112	5	10503	Mountain whitefish	292			2	PIT	:000000247542	
	0112	5	10504	Mountain whitefish	303			2	FLOY	15228	WHITE
	0112	5	10505	Mountain whitefish	303			2	PIT	4D00024730	
	0112	5	10506	Mountain whitefish	308			2	PIT	0A00710915	
	0112	5	10507	Mountain whitefish	338			2	PIT	:000000243207	
	0112	5	10508	Mountain whitefish	364			2	PIT	:000000092047	
	0112	5	10509	Mountain whitefish	287			2	FLOY	3354	ORANGE
	0112	5	10510	Rainbow trout	236			0			
	0114	5	10572	Arctic grayling	278		Fin Ray	2	0	PIT	:000000093859
	0114	5	10573	Rainbow trout	316			0			
	0114	5	10574	Bull trout	337		Fin Ray	3	0	PIT	:000000086744
	0114	5	10575	Mountain whitefish	292			2	FLOY	8354	YELLOW
	0114	5	10576	Mountain whitefish	262			2	PIT	:000000079861	
	0114	5	10577	Mountain whitefish	281			2	FLOY	14553	WHITE
	0114	5	10578	Rainbow trout	250			0			
	0114	5	10579	Mountain whitefish	281			2	PIT	:000000238707	
	0114	5	10580	Mountain whitefish	321			2	FLOY	8330	YELLOW
	0114	5	10581	Mountain whitefish	323			2	FLOY	8239	YELLOW
	0114	5	10582	Mountain whitefish	384			2	PIT	4D00035665	
	0114	5	10583	Mountain whitefish	328			2	PIT	:000000246278	
	0114	5	10584	Mountain whitefish	366			2	PIT	:000000238429	
	0114	5	10585	Mountain whitefish	326			2	FLOY	3417	ORANGE
	0114	5	10586	Mountain whitefish	325			2	FLOY	15331	WHITE
	0114	5	10587	Mountain whitefish	294			2	PIT	:000000238992	
	0114	5	10588	Mountain whitefish	322			2	PIT	:000000240004	
	0114	5	10589	Kokanee	145			0			
	0103	6	12413	Mountain whitefish	318			2	PIT	4D00027808	
	0103	6	12414	Mountain whitefish	322			2	PIT	:000000240876	
	0103	6	12415	Mountain whitefish	335			2	FLOY	11763	WHITE
	0103	6	12416	Mountain whitefish	364			2	FLOY	2032	YELLOW
	0103	6	12417	Mountain whitefish	263			2	PIT	:000000244532	
	0103	6	12418	Mountain whitefish	322			2	PIT	4D00032335	
	0103	6	12419	Kokanee	207			0			
	0103	6	12420	Mountain whitefish	299			2	PIT	:000000241005	
	0105	6	12421	Mountain whitefish	330			2	PIT	0A00735912	
	0105	6	12422	Mountain whitefish	343			2	PIT	:000000243232	
	0105	6	12423	Mountain whitefish	327			2	FLOY	5010	YELLOW
	0105	6	12424	Mountain whitefish	302			2	PIT	:000000089646	
	0105	6	12425	Mountain whitefish	328			2	PIT	:000000245217	
	0105	6	12426	Mountain whitefish	337			2	PIT	:000000241255	
	0105	6	12427	Mountain whitefish	285			2	PIT	:000000241735	
	0105	6	12428	Mountain whitefish	291			2	FLOY	7979	YELLOW
	0105	6	12429	Mountain whitefish	342			2	FLOY	5035	YELLOW
	0105	6	12430	Mountain whitefish	272			2	PIT	:000000248185	
	0104	6	12431	Mountain whitefish	363			2	FLOY	2032	YELLOW
	0104	6	12432	Mountain whitefish	341			2	FLOY	7923	YELLOW
	0104	6	12433	Mountain whitefish	343			2	PIT	:000000242042	
	0104	6	12434	Kokanee	210			0			

Appendix C Table C1. Biological characteristics data for sampled fish, 2008 Peace River Fish Community Indexing Program.

Area and Site Label	Session	FishID	Common Name	Fork Length (mm)	Weight (gm)	Age Structure	Age	Capture Code	Tag		
									Type	Number	Colour
1											
		0104	Mountain whitefish	331				2	PIT	000000246410	
		0101	Mountain whitefish	293				2	PIT	000000243236	
		0101	Mountain whitefish	295				2	PIT	000000243079	
		0101	Mountain whitefish	315				2	FLOY	15372	WHITE
		0101	Mountain whitefish	279				2	PIT	000000248252	
		0101	Mountain whitefish	337				2	FLOY	437	YELLOW
		0101	Mountain whitefish	335				2	PIT	0A00710773	
		0101	Mountain whitefish	316				2	PIT	4D00023455	
		0101	Mountain whitefish	323				2	FLOY	15378	WHITE
		0101	Mountain whitefish	304				2	FLOY	14175	WHITE
		0101	Mountain whitefish	315				2	FLOY	15958	WHITE
		0101	Mountain whitefish	303				2	PIT	000000238505	
		0101	Mountain whitefish	313				2	PIT	000000242539	
		0101	Mountain whitefish	306				2	PIT	4D00032341	
		0101	Mountain whitefish	302				2	FLOY	7046	YELLOW
		0102	Mountain whitefish	322				2	PIT	0A00752118	
		0102	Mountain whitefish	359				2	FLOY	9576	YELLOW
		0102	Mountain whitefish	337				2	PIT	000000244406	
		0102	Mountain whitefish	339				2	FLOY	12990	WHITE
		0102	Mountain whitefish	300				2	PIT	000000246382	
		0102	Mountain whitefish	302				2	PIT	000000242280	
		0102	Mountain whitefish	335				2	PIT	000000242962	
		0102	Mountain whitefish	311				2	PIT	0A00707952	
		0106	Mountain whitefish	317				2	FLOY	3098	ORANGE
		0106	Rainbow trout	451	1002			0			
		0106	Mountain whitefish	338				2	PIT	000000246867	
		0106	Mountain whitefish	341				2	FLOY	11880	WHITE
		0106	Kokanee	210	92			0			
		0106	Rainbow trout	185	82			0			
		0106	Kokanee	205	104			0			
		0106	Kokanee	210	90			0			
		0107	Mountain whitefish	280				2	PIT	000000245943	
		0107	Mountain whitefish	327				2	FLOY	1060	YELLOW
		0107	Rainbow trout	148	32			0			
		0107	Kokanee	220	104			0			
		0107	Kokanee	195	64			0			
		0110	Bull trout	451	856	Fin Ray	4	0	PIT	000000085133	
		0110	Mountain whitefish	301				2	PIT	000000248261	
		0110	Mountain whitefish	329				2	FLOY	9682	YELLOW
		0110	Mountain whitefish	322				2	FLOY	69	YELLOW
		0110	Mountain whitefish	322				2	PIT	000000110189	
		0108	Mountain whitefish	350				2	PIT	4D00050269	
		0108	Bull trout	577	3060		6	2	PIT	0A00727701	
		0108	Mountain whitefish	310				2	PIT	000000248304	
		0108	Kokanee	215	110			0			
		0108	Mountain whitefish	342				2	PIT	000000242867	
		0108	Mountain whitefish	332				2	PIT	4D00035169	
		0108	Mountain whitefish	302				2	PIT	000000084215	
		0108	Mountain whitefish	325				2	FLOY	14235	WHITE
		0108	Mountain whitefish	280				2	PIT	000000243680	
		0108	Kokanee	144	26			0			
		0109	Mountain whitefish	355				2	FLOY	9683	YELLOW
		0109	Mountain whitefish	277				2	PIT	000000248164	
		0109	Mountain whitefish	328				2	PIT	4D00014716	
		0109	Mountain whitefish	352				2	FLOY	14296	WHITE
		0109	Mountain whitefish	342				2	PIT	4D00015143	
		0109	Mountain whitefish	330				2	PIT	000000077813	
		0109	Mountain whitefish	324				2	FLOY	14304	WHITE
		0109	Mountain whitefish	319				2	FLOY	6715	YELLOW
		0109	Mountain whitefish	325				2	PIT	000000084793	
		0109	Mountain whitefish	308				2	PIT	000000239124	
		0109	Mountain whitefish	290				2	PIT	000000238275	
		0109	Mountain whitefish	314				2	PIT	000000091301	
		0109	Mountain whitefish	286				2	PIT	000000245558	

Appendix C Table C1. Biological characteristics data for sampled fish, 2008 Peace River Fish Community Indexing Program.

Area and Site Label	Session	FishID	Common Name	Fork Length (mm)	Weight (gm)	Age Structure	Age	Capture Code	Tag		
									Type	Number	Colour
1											
		0109	Mountain whitefish	295				2	PIT	:000000246559	
		0109	Mountain whitefish	313				2	FLOY	3220	ORANGE
		0109	Mountain whitefish	317				2	PIT	:000000243073	
		0109	Mountain whitefish	284				2	PIT	:000000243508	
		0109	Mountain whitefish	276				2	PIT	0A00725821	
		0109	Mountain whitefish	288				2	PIT	:000000110203	
		0109	Mountain whitefish	338				2	FLOY	15166	WHITE
		0109	Mountain whitefish	304				2	FLOY	14363	WHITE
		0109	Mountain whitefish	339				2	PIT	:000000076946	
		0111	Mountain whitefish	308				2	FLOY	9780	YELLOW
		0111	Bull trout	598	2480	Fin Ray	5	0	PIT	:000000084322	
		0111	Mountain whitefish	271				2	PIT	:000000110497	
		0111	Kokanee	208	108			0			
		0113	Mountain whitefish	318				2	PIT	:000000241969	
		0113	Mountain whitefish	309				2	PIT	:000000239728	
		0113	Mountain whitefish	313				2	PIT	:000000237928	
		0113	Mountain whitefish	325				2	PIT	4D00042042	
		0113	Mountain whitefish	291				2	PIT	4D00025564	
		0113	Mountain whitefish	323				2	FLOY	12019	WHITE
		0113	Mountain whitefish	301				2	FLOY	8279	YELLOW
		0113	Mountain whitefish	313				2	PIT	:000000238423	
		0113	Mountain whitefish	287				2	PIT	:000000110620	
		0116	Mountain whitefish	315				2	FLOY	3408	ORANGE
		0116	Mountain whitefish	253				2	PIT	:000000247796	
		0116	Mountain whitefish	290				2	PIT	:000000243482	
		0116	Mountain whitefish	295				2	FLOY	13305	WHITE
		0116	Mountain whitefish	283				2	PIT	:000000093813	
		0116	Mountain whitefish	317				2	FLOY	6641	YELLOW
		0112	Bull trout	477	1068			2	PIT	:000000078913	
		0112	Mountain whitefish	313				2	PIT	:000000076542	
		0112	Mountain whitefish	314				2	PIT	:000000244884	
		0112	Rainbow trout	214	150			0			
		0112	Mountain whitefish	307				2	PIT	:000000237915	
		0112	Mountain whitefish	338				2	PIT	:000000244807	
		0112	Mountain whitefish	323				2	FLOY	12019	WHITE
		0112	Mountain whitefish	320				2	FLOY	3304	ORANGE
		0112	Mountain whitefish	326				2	PIT	4D00042042	
		0112	Mountain whitefish	330				2	FLOY	5236	YELLOW
		0112	Mountain whitefish	306				2	PIT	:000000247504	
		0114	Rainbow trout	440	990			0			
		0114	Mountain whitefish	315				2	FLOY	12969	WHITE
		0114	Mountain whitefish	292				2	FLOY	13368	WHITE
		0114	Mountain whitefish	286				2	FLOY	3444	ORANGE
		0114	Mountain whitefish	314				2	FLOY	6641	YELLOW
		0114	Mountain whitefish	321				2	PIT	4D00034715	
		0114	Mountain whitefish	278				2	PIT	:000000091339	
		0114	Mountain whitefish	280				2	PIT	:000000085054	
		0114	Mountain whitefish	334				2	PIT	0A00721236	
		0114	Mountain whitefish	323				2	FLOY	14536	WHITE
		0114	Mountain whitefish	320				2	FLOY	9858	YELLOW
		0114	Kokanee	199	86			0			
		0114	Mountain whitefish	284				2	PIT	:000000092308	
		0114	Rainbow trout	184	80			0			
1 Lower Control											
		0106C	Bull trout	460	1036			0			
		0106C	Rainbow trout	373	604			0			
		0106C	Mountain whitefish	357	510	Scales		0			
		0106C	Longnose sucker	254	202			0			
		0106C	Mountain whitefish	299	292	Scales		0			
		0106C	Mountain whitefish	264	218	Scales		0			
		0106C	Mountain whitefish	287	256	Scales		0			
		0106C	Mountain whitefish	288	294	Scales		0			
		0106C	Mountain whitefish	330	386	Scales		0			
		0106C	Mountain whitefish	199		Scales		0			

Appendix C Table C1. Biological characteristics data for sampled fish, 2008 Peace River Fish Community Indexing Program.

Area and Site Label	Session	FishID	Common Name	Fork Length (mm)	Weight (gm)	Age Structure	Age	Capture Code	Tag	
									Type	Number
1 Lower Control										
0106C	1	81	Mountain whitefish	210	116	Scales		0		
0106C	1	82	Mountain whitefish	212	108	Scales		0		
0106C	1	83	Mountain whitefish	239	164	Scales		0		
0106C	1	84	Mountain whitefish	257	182	Scales		0		
0106C	1	85	Mountain whitefish	272	248	Scales		0		
0106C	1	86	Mountain whitefish	348	440	Scales		0		
0106C	1	87	Mountain whitefish	281	284	Scales		0		
0106C	1	88	Mountain whitefish	286	266	Scales		0		
0106C	1	89	Mountain whitefish	269	214	Scales		0		
0106C	1	90	Mountain whitefish	318	400	Scales		0		
0106C	1	91	Rainbow trout	176	76			0		
0106C	1	92	Mountain whitefish	334	372	Scales		0		
0106C	1	93	Mountain whitefish	304	274	Scales		0		
0106C	1	94	Mountain whitefish	344	454	Scales		0		
0106C	1	95	Mountain whitefish	212	114	Scales		0		
0106C	1	96	Mountain whitefish	332	450	Scales		0		
0106C	1	97	Mountain whitefish	322	344	Scales		0		
0106C	1	98	Mountain whitefish	247	182	Scales		0		
0106C	1	99	Mountain whitefish	206	84	Scales		0		
0106C	1	100	Mountain whitefish	333	410	Scales		0		
0106C	1	101	Mountain whitefish	199	94	Scales		0		
0106C	1	102	Mountain whitefish	205	90	Scales		0		
0106C	1	103	Mountain whitefish	284	264	Scales		0		
0106C	1	104	Kokanee	271	202			0		
0106C	1	105	Mountain whitefish	315	360	Scales		0		
0106C	1	106	Mountain whitefish	182	74	Scales		0		
0106C	1	107	Mountain whitefish	280	234	Scales		0		
0106C	1	108	Mountain whitefish	324	372	Scales		0		
0106C	1	109	Mountain whitefish	342	390	Scales		0		
0106C	1	110	Mountain whitefish	225	120	Scales		0		
0106C	1	111	Mountain whitefish	314	352	Scales		0		
0106C	1	112	Mountain whitefish	259	186	Scales		0		
0106C	1	113	Mountain whitefish	326	342	Scales		0		
0106C	1	114	Mountain whitefish	304	302	Scales		0		
0106C	1	115	Mountain whitefish	266	230	Scales		0		
0106C	1	116	Mountain whitefish	277	284	Scales		0		
0106C	1	117	Mountain whitefish	352	422	Scales		0		
0106C	1	118	Mountain whitefish	303	314	Scales		0		
0106C	1	119	Mountain whitefish	331	368	Scales		0		
0106C	1	120	Mountain whitefish	304	322	Scales		0		
0106C	1	121	Mountain whitefish	298	254	Scales		0		
0106C	1	122	Mountain whitefish	244	168	Scales		0		
0107C	1	123	Mountain whitefish	310	340	Scales		0		
0107C	1	124	Mountain whitefish	278	274	Scales		0		
0107C	1	125	Mountain whitefish	260	210	Scales		0		
0107C	1	126	Mountain whitefish	332	428	Scales		0		
0107C	1	127	Mountain whitefish	354	408	Scales		0		
0107C	1	128	Mountain whitefish	289	288	Scales		0		
0107C	1	129	Mountain whitefish	322	390	Scales		0		
0107C	1	130	Mountain whitefish	365	586	Scales		0		
0107C	1	131	Mountain whitefish	317	338	Scales		0		
0107C	1	132	Mountain whitefish	304	306	Scales		0		
0107C	1	133	Mountain whitefish	308	318	Scales		0		
0107C	1	134	Mountain whitefish	277	272	Scales		0		
0107C	1	135	Mountain whitefish	350	434	Scales		0		
0107C	1	136	Mountain whitefish	290	288	Scales		0		
0107C	1	137	Mountain whitefish	287	290	Scales		0		
0107C	1	138	Mountain whitefish	274	260	Scales		0		
0107C	1	139	Mountain whitefish	293	278	Scales		0		
0107C	1	140	Mountain whitefish	321	348	Scales		0		
0107C	1	141	Mountain whitefish	341	394	Scales		0		
0107C	1	142	Mountain whitefish	246	178	Scales		0		
0107C	1	143	Mountain whitefish	323	376	Scales		0		
0107C	1	144	Mountain whitefish	310	322	Scales		0		

Appendix C Table C1. Biological characteristics data for sampled fish, 2008 Peace River Fish Community Indexing Program.

Area and Site Label	Session	FishID	Common Name	Fork Length (mm)	Weight (gm)	Age Structure	Age	Capture Code	Tag	
									Type	Number
1 Lower Control										
0107C	1	145	Mountain whitefish	243	194	Scales		0		
0107C	1	146	Mountain whitefish	213	108	Scales		0		
0107C	1	147	Mountain whitefish	287	260	Scales		0		
0107C	1	148	Mountain whitefish	311	278	Scales		0		
0107C	1	149	Mountain whitefish	239	156	Scales		0		
0107C	1	150	Mountain whitefish	368	536	Scales		0		
0107C	1	151	Mountain whitefish	369	540	Scales		0		
0107C	1	152	Mountain whitefish	337	376	Scales		0		
0107C	1	153	Mountain whitefish	298	294	Scales		0		
0107C	1	154	Mountain whitefish	294	306	Scales		0		
0107C	1	155	Mountain whitefish	337	420	Scales		0		
0107C	1	156	Mountain whitefish	265	206	Scales		0		
0107C	1	157	Mountain whitefish	296	348	Scales		0		
0107C	1	158	Mountain whitefish	274	254	Scales		0		
0107C	1	159	Mountain whitefish	268	252	Scales		0		
0107C	1	160	Mountain whitefish	285	236	Scales		0		
0107C	1	161	Mountain whitefish	238	152	Scales		0		
1 Upper Control										
0105C	1	1	Mountain whitefish	300	420	Scales		0		
0105C	1	2	Mountain whitefish	293	320	Scales		0		
0105C	1	3	Mountain whitefish	326	422	Scales		0		
0105C	1	4	Mountain whitefish	321	458	Scales		0		
0105C	1	5	Mountain whitefish	325	444	Scales		0		
0105C	1	6	Mountain whitefish	244	190	Scales		0		
0105C	1	7	Mountain whitefish	322	420	Scales		0		
0105C	1	8	Mountain whitefish	351	426	Scales		0		
0105C	1	9	Mountain whitefish	366	596	Scales		0		
0105C	1	10	Mountain whitefish	326	368	Scales		0		
0105C	1	11	Mountain whitefish	277	244	Scales		0		
0105C	1	12	Mountain whitefish	342	528	Scales		0		
0105C	1	13	Mountain whitefish	319	380	Scales		0		
0105C	1	14	Mountain whitefish	327	478	Scales		0		
0105C	1	15	Mountain whitefish	337	372	Scales		0		
0105C	1	16	Mountain whitefish	297	350	Scales		0		
0105C	1	17	Mountain whitefish	353	494	Scales		0		
0105C	1	18	Mountain whitefish	314	386	Scales		0		
0105C	1	19	Mountain whitefish	196	80	Scales		0		
0105C	1	20	Mountain whitefish	299	370	Scales		0		
0105C	1	21	Mountain whitefish	317	390	Scales		0		
0105C	1	22	Mountain whitefish	311	318	Scales		0		
0105C	1	23	Mountain whitefish	364	506	Scales		0		
0105C	1	24	Mountain whitefish	317	394	Scales		0		
0105C	1	25	Mountain whitefish	279	290	Scales		0		
0105C	1	26	Mountain whitefish	307	320	Scales		0		
0105C	1	27	Mountain whitefish	302	330	Scales		0		
0105C	1	28	Mountain whitefish	226	118	Scales		0		
0105C	1	29	Mountain whitefish	332	404	Scales		0		
0105C	1	30	Mountain whitefish	333	386	Scales		0		
0105C	1	31	Mountain whitefish	242	196	Scales		0		
0105C	1	32	Mountain whitefish	324	358	Scales		0		
0105C	1	33	Mountain whitefish	313	406	Scales		0		
0105C	1	34	Mountain whitefish	317	372	Scales		0		
0105C	1	35	Mountain whitefish	272	278	Scales		0		
0105C	1	36	Mountain whitefish	259	182	Scales		0		
0104C	1	37	Mountain whitefish	319	376	Scales		0		
0104C	1	38	Mountain whitefish	325	386	Scales		0		
0104C	1	39	Mountain whitefish	336	528	Scales		0		
0104C	1	40	Mountain whitefish	339	422	Scales		0		
0104C	1	41	Mountain whitefish	291	308	Scales		0		
0104C	1	42	Mountain whitefish	274	240	Scales		0		
0104C	1	43	Mountain whitefish	315	398	Scales		0		
0104C	1	44	Mountain whitefish	262	290	Scales		0		
0104C	1	45	Mountain whitefish	280	272	Scales		0		
0104C	1	46	Mountain whitefish	320	342	Scales		0		

Appendix C Table C1. Biological characteristics data for sampled fish, 2008 Peace River Fish Community Indexing Program.

Area and Site Label	Session	FishID	Common Name	Fork Length (mm)	Weight (gm)	Age Structure	Age	Capture Code	Tag		
									Type	Number	Colour
1	Upper Control										
0104C	1	47	Mountain whitefish	315	380	Scales		0			
0104C	1	48	Mountain whitefish	262	226	Scales		0			
0104C	1	49	Mountain whitefish	294	304	Scales		0			
0104C	1	50	Mountain whitefish	306	358	Scales		0			
0104C	1	51	Mountain whitefish	278	256	Scales		0			
0104C	1	52	Mountain whitefish	265	250	Scales		0			
0104C	1	53	Mountain whitefish	329	376	Scales		0			
0104C	1	54	Mountain whitefish	301	312	Scales		0			
0104C	1	55	Mountain whitefish	295	320	Scales		0			
0104C	1	56	Mountain whitefish	270	220	Scales		0			
0104C	1	57	Mountain whitefish	240	188	Scales		0			
0104C	1	58	Mountain whitefish	198	92	Scales		0			
0104C	1	59	Mountain whitefish	333	464	Scales		0			
0104C	1	60	Mountain whitefish	336	430	Scales		0			
0104C	1	61	Mountain whitefish	319	434	Scales		0			
0104C	1	62	Mountain whitefish	265	274	Scales		0			
0104C	1	63	Mountain whitefish	343	424	Scales		0			
0104C	1	64	Mountain whitefish	315	396	Scales		0			
0104C	1	65	Mountain whitefish	225	148	Scales		0			
0104C	1	66	Mountain whitefish	238	164	Scales		0			
0104C	1	67	Mountain whitefish	251	224	Scales		0			
0104C	1	68	Mountain whitefish	293	316	Scales		0			
0104C	1	69	Mountain whitefish	236	164	Scales		0			
0104C	1	70	Mountain whitefish	319	378	Scales		0			
3											
0302	1	872	Largescale sucker	367	556			0			
0302	1	873	Largescale sucker	579	2150			0			
0302	1	874	Largescale sucker	487	1418			0			
0302	1	875	Longnose sucker	376	606			0			
0302	1	876	Longnose sucker	327	418			0			
0302	1	877	Longnose sucker	396	728			0			
0302	1	878	Longnose sucker	352	564			0			
0302	1	879	Longnose sucker	327	428			0			
0302	1	880	Longnose sucker	355	474			0			
0302	1	881	Longnose sucker	416	948			0			
0302	1	882	Longnose sucker	367	662			0			
0302	1	883	Longnose sucker	366	614			0			
0302	1	884	Largescale sucker	317	342			0			
0302	1	885	Longnose sucker	393	738			0			
0302	1	886	Longnose sucker	351	566			0			
0302	1	887	Mountain whitefish	422	934	Scales		0	PIT	000000247410	
0302	1	888	Mountain whitefish	369	474	Scales		0	PIT	000000247653	
0302	1	889	Mountain whitefish	333	356	Scales		2	FLOY	15555	WHITE
0302	1	890	Mountain whitefish	267	196	Scales		0	PIT	000000247614	
0302	1	891	Mountain whitefish	302	304	Scales		0	PIT	000000248087	
0302	1	892	Bull trout	265	210	Fin Ray	3	0	PIT	000000248301	
0302	1	893	Mountain whitefish	227	126	Scales		0	PIT	000000247335	
0302	1	894	Mountain whitefish	198	84	Scales		0			
0302	1	895	Arctic grayling	181	74	Scales		1			
0302	1	896	Mountain whitefish	218	118	Scales		0	PIT	000000245330	
0302	1	897	Longnose sucker	329	436			0			
0302	1	898	Mountain whitefish	413	742	Scales		0	PIT	000000247641	
0302	1	899	Mountain whitefish	410	760	Scales		0	PIT	000000247895	
0302	1	900	Mountain whitefish	302	278	Scales		0	PIT	000000247435	
0302	1	901	Mountain whitefish	316	334	Scales		0	PIT	000000247681	
0302	1	902	Mountain whitefish	313	328	Scales		2	PIT	0A00711439	
0302	1	903	Mountain whitefish	340	428	Scales		2	FLOY	10301	YELLOW
0302	1	904	Mountain whitefish	412	654	Scales		0	PIT	000000247645	
0302	1	905	Mountain whitefish	295	290	Scales		0	PIT	000000247546	
0302	1	906	Mountain whitefish	335	494	Scales		0	PIT	000000247910	
0302	1	907	Mountain whitefish	321	348	Scales		0	PIT	000000247445	
0302	1	908	Mountain whitefish	321	342	Scales		0	PIT	000000247754	
0302	1	909	Mountain whitefish	303	298	Scales		0	PIT	000000247917	
0302	1	910	Mountain whitefish	341	406	Scales		2	FLOY	6026	YELLOW

Appendix C Table C1. Biological characteristics data for sampled fish, 2008 Peace River Fish
Community Indexing Program.

Area and Site Label	Session	FishID	Common Name	Fork Length (mm)	Weight (gm)	Age Structure	Age	Capture Code	Tag		
									Type	Number	Colour
3											
0302	1	911	Mountain whitefish	319	322	Scales		2	FLOY	13573	WHITE
0302	1	912	Longnose sucker	363	584			0			
0302	1	913	Rainbow trout	290	282			0			
0302	1	914	Largescale sucker	251	198			0			
0302	1	915	Longnose sucker	324	436			0			
0302	1	916	Mountain whitefish	278	240	Scales		2	PIT	000000244248	
0302	1	917	Mountain whitefish	209	94	Scales		0	PIT	000000247459	
0302	1	918	Mountain whitefish	271	248	Scales		0			
0302	1	919	Northern pikeminnow	277	234			0			
0302	1	920	Mountain whitefish	253	206	Scales		0	PIT	000000247899	
0302	1	921	Mountain whitefish	332	400	Scales	6	0	PIT	000000247574	
0302	1	922	Mountain whitefish	260	168	Scales		0	PIT	000000247486	
0302	1	923	Mountain whitefish	350	376	Scales		2	FLOY	12391	WHITE
0302	1	924	Arctic grayling	207	108	Scales	2	0			
0302	1	925	Longnose sucker	352	512			0			
0302	1	926	Mountain whitefish	323	406	Scales		0	PIT	000000247610	
0302	1	927	Mountain whitefish	192	72	Scales		0			
0302	1	928	Mountain whitefish	335	382	Scales		2	FLOY	15567	WHITE
0302	1	929	Mountain whitefish	206	86	Scales		0			
0302	1	930	Mountain whitefish	276	324	Scales		0	PIT	000000247798	
0302	1	931	Mountain whitefish	316	328	Scales	4	2	PIT	000000243468	
0302	1	932	Mountain whitefish	199	84	Scales		0			
0302	1	933	Mountain whitefish	372	478	Scales		2	FLOY	12416	WHITE
0302	1	934	Mountain whitefish	255	190	Scales		0	PIT	000000247718	
0302	1	935	Mountain whitefish	318	348	Scales		0	PIT	000000247363	
0302	1	936	Mountain whitefish	290	246	Scales		2	PIT	000000244104	
0302	1	937	Mountain whitefish	329	380	Scales		2	PIT	0A00712040	
0302	1	938	Mountain whitefish	232	114	Scales		0	PIT	000000247987	
0302	1	939	Longnose sucker	360	490			0			
0302	1	940	Mountain whitefish	275	230	Scales		0	PIT	000000247794	
0302	1	941	Mountain whitefish	211	102	Scales		0			
0302	1	942	Mountain whitefish	204	90	Scales		0			
0302	1	943	Rainbow trout	144	26			0			
0302	1	944	Mountain whitefish	209	94	Scales		0			
0302	1	945	Mountain whitefish	199	90	Scales		0			
0302	1	946	Mountain whitefish	341	356	Scales		1	PIT	000000247423	
0302	1	947	Mountain whitefish	299	274	Scales		0	PIT	000000247495	
0302	1	948	Mountain whitefish	383	602	Scales		0	PIT	000000246723	
0302	1	949	Mountain whitefish	285	244	Scales		0	PIT	000000245586	
0302	1	950	Mountain whitefish	247	146	Scales		0	PIT	000000245492	
0302	1	951	Mountain whitefish	295	270	Scales		0	PIT	000000247093	
0302	1	952	Mountain whitefish	183	50	Scales		0			
0302	1	953	Rainbow trout	183	62			0			
0302	1	954	Mountain whitefish	188	72	Scales		0			
0302	1	955	Mountain whitefish	183	60	Scales		0			
0302	1	956	Mountain whitefish	288	252	Scales		0	PIT	000000245573	
0302	1	957	Mountain whitefish	206	96	Scales		0			
0302	1	958	Mountain whitefish	215	112	Scales		0			
0302	1	959	Mountain whitefish	203	86	Scales		0			
0302	1	960	Rainbow trout	127	12			0			
0302	1	961	Longnose sucker	211	126			0			
0302	1	962	Mountain whitefish	198	88	Scales		0			
0302	1	963	Northern pikeminnow	240	166			0			
0302	1	964	Mountain whitefish	145	26	Scales		0			
0302	1	965	Mountain whitefish	212	96	Scales		0			
0302	1	966	Rainbow trout	163	48			0			
0302	1	967	Mountain whitefish	236	142	Scales		0			
0302	1	968	Mountain whitefish	205	80	Scales		0			
0302	1	969	Mountain whitefish	215	108	Scales		0			
0302	1	970	Mountain whitefish	286	256	Scales		0	PIT	000000246183	
0302	1	971	Mountain whitefish	204	92	Scales		0			
0302	1	972	Mountain whitefish	198	76	Scales		0			
0302	1	973	Mountain whitefish	136	26	Scales		0			
0302	1	974	Mountain whitefish	187	64	Scales		0			

Appendix C Table C1. Biological characteristics data for sampled fish, 2008 Peace River Fish Community Indexing Program.

Area and Site Label	Session	FishID	Common Name	Fork Length (mm)	Weight (gm)	Age Structure	Age	Capture Code	Tag		
									Type	Number	Colour
3											
0302	1	975	Mountain whitefish	143	28	Scales		0			
0302	1	976	Mountain whitefish	135	22	Scales		0			
0301	1	977	Mountain whitefish	304	314	Scales		0			
0301	1	978	Mountain whitefish	318	348	Scales		2	PIT	000000247754	
0301	1	979	Rainbow trout	254	206	Scales		0			
0301	1	980	Mountain whitefish	338	498	Scales		2	PIT	000000247910	
0301	1	981	Mountain whitefish	268	222	Scales		2	PIT	000000241913	
0301	1	982	Mountain whitefish	217	118	Scales	2	0			
0301	1	983	Arctic grayling	267	260	Scales	2	0	PIT	000000246499	
0301	1	984	Arctic grayling	273	272	Scales	2	0	PIT	000000247063	
0301	1	985	Mountain whitefish	214	108	Scales		0			
0301	1	986	Mountain whitefish	232	138	Scales		0			
0301	1	987	Mountain whitefish	258	204	Scales		0	PIT	000000245645	
0301	1	988	Mountain whitefish	133	32	Scales		0			
0301	1	989	Arctic grayling	178	80	Scales	1	0			
0301	1	990	Mountain whitefish	186	60	Scales		0			
0301	1	991	Longnose sucker	368	694	Scales		0			
0301	1	992	Mountain whitefish	301	272	Scales	5	0	PIT	000000247044	
0301	1	993	Mountain whitefish	338	352	Scales		2	FLOY	16018	WHITE
0301	1	994	Arctic grayling	376	724	Scales	4	2	PIT	999999999999	
0301	1	995	Mountain whitefish	264	206	Scales		0	PIT	000000246812	
0301	1	996	Arctic grayling	254	210	Scales	2	0	PIT	000000245907	
0301	1	997	Mountain whitefish	354	498	Scales		2	PIT	0A00726552	
0301	1	998	Mountain whitefish	253	208	Scales		0	PIT	000000246682	
0301	1	999	Rainbow trout	304	328	Scales		0			
0301	1	1000	Mountain whitefish	375	528	Scales		0	PIT	000000246738	
0301	1	1001	Mountain whitefish	272	232	Scales		0	PIT	000000246717	
0301	1	1002	Arctic grayling	283	284	Scales	2	0	PIT	000000247101	
0301	1	1003	Mountain whitefish	279	208	Scales		0	PIT	000000247018	
0301	1	1004	Mountain whitefish	284	250	Scales		2	PIT	000000245573	
0301	1	1005	Mountain whitefish	349	464	Scales		2	FLOY	13564	WHITE
0301	1	1006	Mountain whitefish	353	472	Scales		0	PIT	000000245321	
0301	1	1007	Arctic grayling	349	622	Scales	3	0	PIT	000000246839	
0301	1	1008	Mountain whitefish	374	468	Scales		0	PIT	000000246941	
0301	1	1009	Mountain whitefish	226	154	Scales		0			
0301	1	1010	Arctic grayling	264	250	Scales	2	0	PIT	000000246286	
0301	1	1011	Arctic grayling	183	82	Scales	1	0			
0301	1	1012	Arctic grayling	261	228	Scales	2	0	PIT	000000246210	
0301	1	1013	Mountain whitefish	195	92	Scales		0			
0301	1	1014	Mountain whitefish	337	462	Scales		0	PIT	000000246918	
0301	1	1015	Mountain whitefish	193	80	Scales		0			
0301	1	1016	Mountain whitefish	199	88	Scales		0			
0301	1	1017	Rainbow trout	199	76	Scales		0			
0301	1	1018	Mountain whitefish	192	88	Scales		0			
0301	1	1019	Mountain whitefish	206	90	Scales		0			
0301	1	1020	Mountain whitefish	193	86	Scales		0			
0301	1	1021	Mountain whitefish	271	254	Scales		0	PIT	000000246119	
0301	1	1022	Rainbow trout	246	140	Scales		0			
0301	1	1023	Mountain whitefish	218	114	Scales		0			
0301	1	1024	Mountain whitefish	211	98	Scales		0			
0301	1	1025	Mountain whitefish	204	98	Scales		0			
0301	1	1026	Mountain whitefish	190	74	Scales		0			
0301	1	1027	Mountain whitefish	192	74	Scales		0			
0301	1	1028	Arctic grayling	188	84	Scales	1	0			
0301	1	1029	Mountain whitefish	197	80	Scales		0			
0301	1	1030	Mountain whitefish	207	94	Scales		0			
0301	1	1031	Mountain whitefish	208	94	Scales	2	0			
0301	1	1032	Rainbow trout	151	40	Scales		0			
0301	1	1033	Mountain whitefish	217	106	Scales		0			
0301	1	1034	Bull trout	382	606	Fin Ray	4	0	PIT	000000246835	
0301	1	1035	Mountain whitefish	294	202	Scales		0			
0301	1	1036	Mountain whitefish	203	78	Scales		0			
0301	1	1037	Mountain whitefish	154	36	Scales		0			
0301	1	1038	Mountain whitefish	154	36	Scales		0			

Appendix C Table C1. Biological characteristics data for sampled fish, 2008 Peace River Fish Community Indexing Program.

Area and Site Label	Session	FishID	Common Name	Fork Length (mm)	Weight (gm)	Age Structure	Age	Capture Code	Tag		
									Type	Number	Colour
3											
0301	1	1039	Mountain whitefish	185	74	Scales		0			
0301	1	1040	Mountain whitefish	67	4	Scales	0	0			
0301	1	1041	Mountain whitefish	223	158	Scales		0			
0301	1	1042	Mountain whitefish	154	46	Scales		0			
0301	1	1043	Mountain whitefish	198	88	Scales		0			
0301	1	1044	Mountain whitefish	240	164	Scales		0			
0301	1	1045	Mountain whitefish	206	92	Scales		0			
0303	1	1046	Bull trout	573	2900	Fin Ray	6	0	PIT	000000244311	
0303	1	1047	Longnose sucker	396	776			0			
0303	1	1048	Longnose sucker	350	590			0			
0303	1	1049	Bull trout	444	856	Fin Ray	4	0	PIT	000000245637	
0303	1	1050	Longnose sucker	378	842			0			
0303	1	1051	Longnose sucker	308	372			0			
0303	1	1052	Mountain whitefish	366	528	Scales		2	PIT	0A00747751	
0303	1	1053	Mountain whitefish	413	720	Scales		2	PIT	4D00013871	
0303	1	1054	Mountain whitefish	425	838	Scales	8	0	PIT	000000247151	
0303	1	1055	Mountain whitefish	363	482	Scales		2	FLOY	3965	YELLOW
0303	1	1056	Mountain whitefish	290	264	Scales		0	PIT	000000247197	
0303	1	1057	Mountain whitefish	364	502	Scales		0	PIT	000000246492	
0303	1	1058	Mountain whitefish	355	482	Scales		2	PIT	000000245321	
0303	1	1059	Mountain whitefish	298	290	Scales		2	PIT	000000243931	
0303	1	1060	Mountain whitefish	282	268	Scales		2	FLOY	14881	WHITE
0303	1	1061	Mountain whitefish	391	700	Scales		0	PIT	000000246899	
0303	1	1062	Mountain whitefish	333	402	Scales		0	PIT	000000246815	
0303	1	1063	Mountain whitefish	334	424	Scales		2	PIT	0A00720319	
0303	1	1064	Mountain whitefish	295	262	Scales		2	PIT	000000244178	
0303	1	1065	Mountain whitefish	269	216	Scales		0	PIT	000000247222	
0303	1	1066	Mountain whitefish	306	304	Scales		0	PIT	000000246860	
0303	1	1067	Mountain whitefish	244	156	Scales		0			
0303	1	1068	Mountain whitefish	215	108	Scales		0			
0303	1	1069	Largescale sucker	219	122			0			
0303	1	1070	Mountain whitefish	199	84	Scales		0			
0303	1	1071	Mountain whitefish	214	82	Scales		0			
0303	1	1072	Mountain whitefish	193	66	Scales		0			
0303	1	1073	Mountain whitefish	192	60	Scales		0			
0303	1	1074	Mountain whitefish	195	84	Scales		0			
0303	1	1075	Mountain whitefish	182	54	Scales		0			
0303	1	1076	Mountain whitefish	337	494	Scales		2	PIT	000000247910	
0303	1	1077	Mountain whitefish	335	396	Scales		0	PIT	000000246351	
0303	1	1078	Longnose sucker	251	180			0			
0303	1	1079	Mountain whitefish	260	208	Scales		0	PIT	000000246926	
0303	1	1080	Mountain whitefish	286	220	Scales		0	PIT	000000246392	
0303	1	1081	Mountain whitefish	197	92	Scales		0			
0303	1	1082	Mountain whitefish	345	432	Scales		2	FLOY	5983	YELLOW
0303	1	1083	Mountain whitefish	360	466	Scales		0	PIT	000000246993	
0303	1	1084	Mountain whitefish	367	442	Scales		0	PIT	000000245270	
0303	1	1085	Mountain whitefish	349	388	Scales		2	FLOY	5961	YELLOW
0303	1	1086	Mountain whitefish	294	298	Scales		2	PIT	4D00015354	
0303	1	1087	Mountain whitefish	304	318	Scales		0	PIT	000000243764	
0303	1	1088	Mountain whitefish	297	264	Scales		2	PIT	000000245438	
0303	1	1089	Mountain whitefish	210	94	Scales		0			
0303	1	1090	Mountain whitefish	346	418	Scales	7	2	PIT	0A00711444	
0303	1	1091	Mountain whitefish	318	308	Scales		2	PIT	0A00720438	
0303	1	1092	Mountain whitefish	332	406	Scales		2	PIT	000000247574	
0303	1	1093	Mountain whitefish	274	226	Scales		0	PIT	000000244070	
0303	1	1094	Mountain whitefish	311	314	Scales		0	PIT	000000246884	
0303	1	1095	Mountain whitefish	344	454	Scales		2	PIT	0A00732305	
0303	1	1096	Mountain whitefish	276	210	Scales		0	PIT	000000245389	
0303	1	1097	Mountain whitefish	265	186	Scales		0	PIT	000000247156	
0303	1	1098	Mountain whitefish	356	422	Scales		2	PIT	4D00024507	
0303	1	1099	Mountain whitefish	311	284	Scales		0	PIT	000000246955	
0303	1	1100	Mountain whitefish	210	100	Scales		0			
0303	1	1101	Mountain whitefish	255	178	Scales		0	PIT	000000246832	
0303	1	1102	Mountain whitefish	218		Scales		2	0		

Appendix C Table C1. Biological characteristics data for sampled fish, 2008 Peace River Fish Community Indexing Program.

Area and Site Label	Session	FishID	Common Name	Fork Length (mm)	Weight (gm)	Age Structure	Age	Capture Code	Tag		
									Type	Number	Colour
3											
0304	1	1167	Mountain whitefish	198	82	Scales		0			
0304	1	1168	Mountain whitefish	162	46	Scales		0			
0304	1	1169	Mountain whitefish	205	86	Scales		0			
0304	1	1170	Mountain whitefish	214	104	Scales	2	0			
0304	1	1171	Mountain whitefish	189	74	Scales		0			
0304	1	1172	Mountain whitefish	177	62	Scales		0			
0304	1	1173	Mountain whitefish	212	106	Scales		0			
0304	1	1174	Mountain whitefish	207	94	Scales		0			
0304	1	1175	Mountain whitefish	213	110	Scales		0			
0305	1	1176	Longnose sucker	376	632			0			
0305	1	1177	Largescale sucker	485	1686			0			
0305	1	1178	Longnose sucker	378				0			
0305	1	1179	Longnose sucker	420	1014			0			
0305	1	1180	Longnose sucker	391	766			0			
0305	1	1181	Largescale sucker	467	1282			2	FLOY	1288	YELLOW
0305	1	1182	Largescale sucker	542	2206			0			
0305	1	1183	Longnose sucker	353	544			0			
0305	1	1184	Longnose sucker	292	302			0			
0305	1	1185	Largescale sucker	462	1394			0			
0305	1	1186	Longnose sucker	400	908			0			
0305	1	1187	Largescale sucker	447	1188			0			
0305	1	1188	Longnose sucker	337	478			0			
0305	1	1189	Longnose sucker	364	668			0			
0305	1	1190	Longnose sucker	373	688			0			
0305	1	1191	Longnose sucker	338	504			0			
0305	1	1192	Mountain whitefish	354	404	Scales		0	PIT	000000246620	
0305	1	1193	Mountain whitefish	373	556	Scales		0	PIT	000000247147	
0305	1	1194	Mountain whitefish	323	380	Scales		0	PIT	000000245353	
0305	1	1195	Mountain whitefish	425	932	Scales		2	PIT	000000247410	
0305	1	1196	Mountain whitefish	298	300	Scales	4	0	PIT	000000243989	
0305	1	1197	Mountain whitefish	309	308	Scales		0	PIT	000000245940	
0305	1	1198	Mountain whitefish	368	596	Scales		0	PIT	000000247006	
0305	1	1199	Mountain whitefish	328	430	Scales		0	PIT	000000246880	
0305	1	1200	Mountain whitefish	335	366	Scales		2	PIT	0A00710149	
0305	1	1201	Mountain whitefish	295	286	Scales		0	PIT	000000247152	
0305	1	1202	Mountain whitefish	274	226	Scales		0	PIT	000000247270	
0305	1	1203	Longnose sucker	358	630			0			
0305	1	1204	Mountain whitefish	312	348	Scales		2	PIT	0A00714010	
0305	1	1205	Mountain whitefish	358	552	Scales	5	0	PIT	000000247144	
0305	1	1206	Mountain whitefish	365	478	Scales		2	FLOY	13703	WHITE
0305	1	1207	Mountain whitefish	363	446	Scales		2	PIT	4D00031073	
0305	1	1208	Mountain whitefish	347	460	Scales		0	PIT	000000246678	
0305	1	1209	Mountain whitefish	299	308	Scales		0	PIT	000000245846	
0305	1	1210	Mountain whitefish	353	374	Scales		0	PIT	000000243371	
0305	1	1211	Mountain whitefish	427	776	Scales		2	PIT	4D00032859	
0305	1	1212	Mountain whitefish	264	186	Scales		0	PIT	000000243431	
0305	1	1213	Mountain whitefish	347	386	Scales		0			
0305	1	1214	Mountain whitefish	311	338	Scales		0	PIT	000000245628	
0305	1	1215	Mountain whitefish	364	480	Scales		2	PIT	0A00731407	
0305	1	1216	Longnose sucker	382	810			0			
0305	1	1217	Mountain whitefish	333	458	Scales		2	PIT	000000243876	
0305	1	1218	Mountain whitefish	354	494	Scales	7	0	PIT	000000245462	
0305	1	1219	Mountain whitefish	382	518	Scales		0	PIT	000000247203	
0305	1	1220	Longnose sucker	294	280			0			
0305	1	1221	Mountain whitefish	293		Scales		0	PIT	000000247268	
0305	1	1222	Mountain whitefish	298	298	Scales		2	PIT	000000245507	
0305	1	1223	Mountain whitefish	306	372	Scales		0			
0305	1	1224	Longnose sucker	317	450			0			
0305	1	1225	Longnose sucker	275	296			0			
0305	1	1226	Mountain whitefish	256	164	Scales		0	PIT	000000244480	
0305	1	1227	Bull trout	324	358	Fin Ray	3	0	PIT	000000246350	
0305	1	1228	Mountain whitefish	242	152	Scales	3	0			
0305	1	1229	Longnose sucker	278	278			0			
0305	1	1230	Mountain whitefish	283	256	Scales		0	PIT	000000246954	

Appendix C Table C1. Biological characteristics data for sampled fish, 2008 Peace River Fish Community Indexing Program.

Area and Site Label	Session	FishID	Common Name	Fork Length (mm)	Weight (gm)	Age Structure	Age	Capture Code	Tag		
									Type	Number	Colour
3											
0305	1	1231	Mountain whitefish	307	270	Scales		0	PIT		000000244223
0305	1	1232	Mountain whitefish	296	262	Scales		0	PIT		000000246590
0305	1	1233	Mountain whitefish	253	158	Scales	3	0	PIT		000000247016
0305	1	1234	Mountain whitefish	244	140	Scales		0			
0305	1	1235	Mountain whitefish	266	190	Scales		0	PIT		000000246640
0305	1	1236	Mountain whitefish	185	70	Scales		0			
0305	1	1237	Mountain whitefish	290	234	Scales		0	PIT		000000244222
0305	1	1238	Mountain whitefish	315	376	Scales		0	PIT		000000246981
0305	1	1239	Mountain whitefish	427	1198	Scales		0	PIT		000000245854
0305	1	1240	Mountain whitefish	249	158	Scales		0			
0305	1	1241	Mountain whitefish	248	178	Scales		0			
0305	1	1242	Mountain whitefish	313	336	Scales		2	FLOY	16451	WHITE
0305	1	1243	Mountain whitefish	191	68	Scales		0			
0305	1	1244	Longnose sucker	374	812			0			
0305	1	1245	Mountain whitefish	297	292	Scales	5	0	PIT		000000246185
0305	1	1246	Mountain whitefish	309	308	Scales	4	0	PIT		000000246396
0305	1	1247	Mountain whitefish	357	456	Scales		2	FLOY	341	YELLOW
0305	1	1248	Mountain whitefish	254	192	Scales		0	PIT		000000246324
0305	1	1249	Mountain whitefish	270	214	Scales		0	PIT		000000245490
0305	1	1250	Longnose sucker	243	168			0			
0311	1	1365	Largescale sucker	419	986			0			
0311	1	1366	Largescale sucker	532	1936			0			
0311	1	1367	Largescale sucker	509	1684			0			
0311	1	1368	Largescale sucker	466	1326			0			
0311	1	1369	Largescale sucker	458	1402			0			
0311	1	1370	Longnose sucker	323	440			0			
0311	1	1371	Longnose sucker	281	258			0			
0311	1	1372	Largescale sucker	414	956			0			
0311	1	1373	Longnose sucker	318	402			0			
0311	1	1374	Longnose sucker	365	668			0			
0311	1	1375	Longnose sucker	320	420			0			
0311	1	1376	Longnose sucker	404	736			0			
0311	1	1377	Longnose sucker	345	478			0			
0311	1	1378	Largescale sucker	300	352			0			
0311	1	1379	Longnose sucker	324	432			0			
0311	1	1380	Mountain whitefish	352	444	Scales		2	PIT	0A00717527	
0311	1	1381	Mountain whitefish	308	318	Scales		0	PIT		000000247566
0311	1	1382	Mountain whitefish	284	262	Scales		2	PIT		000000240531
0311	1	1383	Mountain whitefish	310	286	Scales		0			
0311	1	1384	Mountain whitefish	310	350	Scales	7	0	PIT		000000247331
0311	1	1385	Mountain whitefish	314	358	Scales		0	PIT		000000247550
0311	1	1386	Longnose sucker	304	376			0			
0311	1	1387	Mountain whitefish	420	746	Scales		0	PIT		000000247750
0311	1	1388	Mountain whitefish	351	508	Scales		2	FLOY	12480	WHITE
0311	1	1389	Mountain whitefish	278	258	Scales		0	PIT		000000248313
0311	1	1390	Mountain whitefish	315	352	Scales		0	PIT		000000247883
0311	1	1391	Mountain whitefish	326	386	Scales		0	PIT		000000247801
0311	1	1392	Mountain whitefish	361	508	Scales		0	PIT		000000247737
0311	1	1393	Mountain whitefish	305	274	Scales		2	FLOY	13729	WHITE
0311	1	1394	Mountain whitefish	272	192	Scales		0	PIT		000000248147
0311	1	1395	Mountain whitefish	364	430	Scales		0	PIT		000000248287
0311	1	1396	Arctic grayling	316	440	Scales	3	0	PIT		000000247689
0311	1	1397	Longnose sucker	286	318			0			
0311	1	1398	Bull trout	376	526	Fin Ray	4	0	PIT		000000247679
0311	1	1399	Mountain whitefish	312	376	Scales		2	PIT	0A00725869	
0311	1	1400	Mountain whitefish	282	276	Scales	4	0	PIT		000000248112
0311	1	1401	Rainbow trout	221	142			0			
0311	1	1402	Longnose sucker	240	198			0			
0311	1	1403	Mountain whitefish	244	176	Scales		0			
0311	1	1404	Longnose sucker	290	322			0			
0311	1	1405	Mountain whitefish	272	240	Scales		2	PIT		000000245839
0311	1	1406	Mountain whitefish	194	80	Scales		0			
0311	1	1407	Mountain whitefish	354	486	Scales		2	PIT		000000244124
0311	1	1408	Bull trout	397	630	Fin Ray	4	0	PIT		000000247516

Appendix C Table C1. Biological characteristics data for sampled fish, 2008 Peace River Fish Community Indexing Program.

Area and Site Label	Session	FishID	Common Name	Fork Length (mm)	Weight (gm)	Age Structure	Age	Capture Code	Tag		
									Type	Number	Colour
3											
0311	1	1409	Longnose sucker	292	356			0			
0311	1	1410	Mountain whitefish	270	200	Scales		0			
0311	1	1411	Mountain whitefish	243	164	Scales		0			
0311	1	1412	Mountain whitefish	342	476	Scales		0	PIT	000000247652	
0311	1	1413	Mountain whitefish	271	230	Scales		0	PIT	000000247769	
0311	1	1414	Longnose sucker	304	382			0			
0311	1	1415	Mountain whitefish	263	202	Scales		0	PIT	000000247892	
0311	1	1416	Longnose sucker	275	270			0			
0311	1	1417	Mountain whitefish	171	56	Scales		0			
0311	1	1418	Mountain whitefish	198	86	Scales		0			
0311	1	1419	Mountain whitefish	177	58	Scales		0			
0311	1	1420	Mountain whitefish	195	74	Scales		0			
0311	1	1421	Mountain whitefish	254	164	Scales		0	PIT	000000247572	
0311	1	1422	Mountain whitefish	196	78	Scales		0			
0311	1	1423	Mountain whitefish	371	572	Scales		0	PIT	000000247412	
0311	1	1424	Mountain whitefish	258	196	Scales		0	PIT	000000247886	
0311	1	1425	Mountain whitefish	265	200	Scales		0	PIT	000000248091	
0311	1	1426	Mountain whitefish	303	310	Scales		2	PIT	000000245940	
0311	1	1427	Mountain whitefish	333	398	Scales		0	PIT	000000248215	
0311	1	1428	Mountain whitefish	254	186	Scales	3	0	PIT	000000248256	
0311	1	1429	Mountain whitefish	202	90	Scales		0			
0311	1	1430	Mountain whitefish	226	140	Scales		0			
0311	1	1431	Mountain whitefish	332	360	Scales		0	PIT	000000248071	
0311	1	1432	Mountain whitefish	181	62	Scales		0			
0311	1	1433	Mountain whitefish	256	192	Scales		0	PIT	000000247633	
0311	1	1434	Mountain whitefish	224	132	Scales		0			
0311	1	1435	Mountain whitefish	330	396	Scales		2	PIT	0A00710771	
0311	1	1436	Mountain whitefish	388	610	Scales		0	PIT	000000248085	
0311	1	1437	Mountain whitefish	262	220	Scales		0	PIT	000000248062	
0311	1	1438	Mountain whitefish	209	96	Scales		0			
0311	1	1439	Mountain whitefish	260	202	Scales		0	PIT	000000247712	
0311	1	1440	Mountain whitefish	274	240	Scales		2	PIT	000000243884	
0311	1	1441	Longnose sucker	156	46			0			
0311	1	1442	Mountain whitefish	70		Scales		0			
0311	1	1443	Longnose sucker	83	6			0			
0309	1	1444	Mountain whitefish	458	914	Scales		2	FLOY	9110	YELLOW
0309	1	1445	Mountain whitefish	400	708	Scales		2	FLOY	9128	YELLOW
0309	1	1446	Mountain whitefish	376	648	Scales		2	FLOY	15793	WHITE
0309	1	1447	Mountain whitefish	324	352	Scales		2	FLOY	11448	WHITE
0309	1	1448	Mountain whitefish	377	528	Scales		2	PIT	0A00746633	
0309	1	1449	Mountain whitefish	357	508	Scales		2	FLOY	12480	WHITE
0309	1	1450	Mountain whitefish	279	216	Scales		0	PIT	000000247547	
0309	1	1451	Mountain whitefish	291	278	Scales		0	PIT	000000247963	
0309	1	1452	Largescale sucker	456	1270			0			
0309	1	1453	Largescale sucker	460	1184			0			
0309	1	1454	Mountain whitefish	326	366	Scales		2	PIT	000000239641	
0309	1	1455	Mountain whitefish	358	494	Scales		2	PIT	0A00710458	
0309	1	1456	Mountain whitefish	302	328	Scales		2	FLOY	15771	WHITE
0309	1	1457	Mountain whitefish	155	40	Scales		0			
0309	1	1458	Mountain whitefish	239	150	Scales		0			
0309	1	1459	Mountain whitefish	199	84	Scales	2	0			
0309	1	1460	Mountain whitefish	211	98	Scales		0			
0309	1	1461	Mountain whitefish	308	274	Scales		2	FLOY	13729	WHITE
0309	1	1462	Mountain whitefish	272	248	Scales		0	PIT	000000247587	
0309	1	1463	Mountain whitefish	432	794	Scales	8	0	PIT	000000247995	
0309	1	1464	Mountain whitefish	366	518	Scales		0	PIT	000000247904	
0309	1	1465	Mountain whitefish	391	544	Scales		0	PIT	000000247511	
0309	1	1466	Mountain whitefish	357	392	Scales		0	PIT	000000248031	
0309	1	1467	Mountain whitefish	340	398	Scales		0	PIT	000000248069	
0309	1	1468	Mountain whitefish	382	524	Scales		0	PIT	000000247560	
0309	1	1469	Mountain whitefish	312	300	Scales		2	PIT	4D00027228	
0309	1	1470	Arctic grayling	199	98	Scales	1	0			
0309	1	1471	Mountain whitefish	338	446	Scales		0	PIT	000000247727	
0309	1	1472	Mountain whitefish	392	546	Scales		0	PIT	000000247736	

Appendix C Table C1. Biological characteristics data for sampled fish, 2008 Peace River Fish Community Indexing Program.

Area and Site Label	Session	FishID	Common Name	Fork Length (mm)	Weight (gm)	Age Structure	Age	Capture Code	Tag		
									Type	Number	Colour
3											
0309	1	1473	Mountain whitefish	272	260	Scales		0			
0309	1	1474	Mountain whitefish	321	340	Scales		2	FLOY	5493	YELLOW
0309	1	1475	Mountain whitefish	304	298	Scales		2	PIT	0A00733045	
0309	1	1476	Kokanee	123	16			0			
0309	1	1477	Mountain whitefish	300	278	Scales		2	PIT	000000246716	
0309	1	1478	Mountain whitefish	202	90	Scales		0			
0309	1	1479	Mountain whitefish	368	450	Scales		0	PIT	000000245873	
0309	1	1480	Mountain whitefish	265	202	Scales		0	PIT	000000247454	
0309	1	1481	Mountain whitefish	155	42	Scales		0			
0309	1	1482	Mountain whitefish	174	50	Scales		0			
0309	1	1483	Mountain whitefish	202	84	Scales		0			
0309	1	1484	Mountain whitefish	193	66	Scales		0			
0309	1	1485	Mountain whitefish	193	76	Scales		0			
0309	1	1486	Mountain whitefish	187	64	Scales		0			
0309	1	1487	Mountain whitefish	143	28	Scales		0			
0309	1	1488	Mountain whitefish	152	36	Scales		0			
0309	1	1489	Mountain whitefish	261	204	Scales		0	PIT	000000247360	
0309	1	1490	Mountain whitefish	196	74	Scales		0			
0309	1	1491	Mountain whitefish	87	6	Scales		0			
0309	1	1492	Mountain whitefish	190	78	Scales		0			
0309	1	1493	Mountain whitefish	283	270	Scales		0	PIT	000000246534	
0309	1	1494	Mountain whitefish	191	68	Scales	2	0			
0309	1	1495	Mountain whitefish	146	30	Scales		0			
0309	1	1496	Mountain whitefish	156	44	Scales		0			
0309	1	1497	Mountain whitefish	200	80	Scales		0			
0310	1	1498	Mountain whitefish	424	826	Scales		0	PIT	000000248050	
0310	1	1499	Mountain whitefish	452	1002	Scales		2	PIT	4D00027270	
0310	1	1500	Bull trout	523	1606		5	2	PIT	000000238467	
0310	1	1501	Mountain whitefish	359	490	Scales		0	PIT	000000247772	
0310	1	1502	Mountain whitefish	382	634	Scales		0	PIT	000000248081	
0310	1	1503	Mountain whitefish	215	114	Scales		0			
0310	1	1504	Mountain whitefish	204	114	Scales		0			
0310	1	1505	Mountain whitefish	312	316	Scales		2	FLOY	16177	WHITE
0310	1	1506	Mountain whitefish	321	338	Scales		2	FLOY	13743	WHITE
0310	1	1507	Mountain whitefish	245	176	Scales		0			
0310	1	1508	Mountain whitefish	220	118	Scales		0			
0310	1	1509	Mountain whitefish	396	702	Scales		0	PIT	000000245446	
0310	1	1510	Mountain whitefish	203	88	Scales		0			
0310	1	1511	Mountain whitefish	250	168	Scales		0	PIT	000000248095	
0310	1	1512	Mountain whitefish	204	84	Scales	2	0			
0310	1	1513	Mountain whitefish	189	68	Scales		0			
0310	1	1514	Mountain whitefish	169	62	Scales		0			
0310	1	1515	Mountain whitefish	195	94	Scales		0			
0310	1	1516	Rainbow trout	161	56			0			
0310	1	1517	Mountain whitefish	139	38	Scales		0			
0310	1	1518	Rainbow trout	149	44			0			
0310	1	1519	Mountain whitefish	141	30	Scales		0			
0310	1	1520	Mountain whitefish	144	38	Scales		0			
0310	1	1521	Mountain whitefish	335	396	Scales		0	PIT	000000248007	
0310	1	1522	Mountain whitefish	378	508	Scales		0	PIT	000000247637	
0310	1	1523	Mountain whitefish	266	198	Scales		0			
0310	1	1524	Mountain whitefish	236	148	Scales		0			
0310	1	1525	Mountain whitefish	263	234	Scales	3	2	PIT	000000247769	
0310	1	1526	Mountain whitefish	346	392	Scales		0	PIT	000000247526	
0310	1	1527	Mountain whitefish	264	206	Scales		0	PIT	000000247358	
0310	1	1528	Mountain whitefish	204	88	Scales		0			
0310	1	1529	Mountain whitefish	192	94	Scales		0			
0310	1	1530	Mountain whitefish	207	96	Scales		0			
0310	1	1531	Mountain whitefish	189	70	Scales		0			
0310	1	1532	Mountain whitefish	187	76	Scales		0			
0310	1	1533	Mountain whitefish	205	104	Scales		0			
0310	1	1534	Mountain whitefish	186	80	Scales		0			
0310	1	1535	Mountain whitefish	206		Scales		0			
0310	1	1536	Mountain whitefish	201	78	Scales		0			

Appendix C Table C1. Biological characteristics data for sampled fish, 2008 Peace River Fish
Community Indexing Program.

Area and Site Label	Session	FishID	Common Name	Fork Length (mm)	Weight (gm)	Age Structure	Age	Capture Code	Tag		
									Type	Number	Colour
3											
0310	1	1537	Mountain whitefish	149	36	Scales		0			
0310	1	1538	Mountain whitefish	147	28	Scales		0			
0310	1	1539	Mountain whitefish	335	388	Scales		0	PIT	000000248098	
0310	1	1540	Mountain whitefish	315	264	Scales		0	PIT	000000247506	
0310	1	1541	Mountain whitefish	295	304	Scales		2	PIT	4D00022031	
0310	1	1542	Mountain whitefish	332	328	Scales		0	PIT	000000247611	
0310	1	1543	Mountain whitefish	200	86	Scales		0			
0310	1	1544	Mountain whitefish	325	332	Scales		2	PIT	0A00717401	
0310	1	1545	Mountain whitefish	196	84	Scales		0			
0310	1	1546	Mountain whitefish	203	90	Scales		0			
0310	1	1547	Largescale sucker	220	124			0			
0310	1	1548	Mountain whitefish	184	64	Scales		0			
0310	1	1549	Mountain whitefish	195	78	Scales		0			
0310	1	1550	Mountain whitefish	155	40	Scales		0			
0310	1	1551	Kokanee	112	14			0			
0310	1	1552	Longnose sucker	120	14			0			
0310	1	1553	Longnose sucker	363	596			0			
0310	1	1554	Mountain whitefish	268	216	Scales		0	PIT	000000247430	
0310	1	1555	Mountain whitefish	369	574	Scales		2	PIT	000000244832	
0310	1	1556	Mountain whitefish	207	96	Scales		0			
0310	1	1557	Mountain whitefish	188	64	Scales		0			
0310	1	1558	Mountain whitefish	189	66	Scales		0			
0310	1	1559	Mountain whitefish	310	332	Scales		0	PIT	000000248155	
0310	1	1560	Mountain whitefish	188	56	Scales		0			
0310	1	1561	Mountain whitefish	237	136	Scales		0			
0312	1	1562	Mountain whitefish	418	928	Scales		2	PIT	000000242019	
0312	1	1563	Mountain whitefish	414	772	Scales		0	PIT	000000247705	
0312	1	1564	Mountain whitefish	403	724	Scales		0	PIT	000000247703	
0312	1	1565	Mountain whitefish	387	322	Scales		2	FLOY	16446	WHITE
0312	1	1566	Mountain whitefish	363	498	Scales		0	PIT	000000247040	
0312	1	1567	Mountain whitefish	332	420	Scales		0	PIT	000000247759	
0312	1	1568	Mountain whitefish	350	474	Scales		2	FLOY	12645	WHITE
0312	1	1569	Longnose sucker	400	828			0			
0312	1	1570	Longnose sucker	302	336			0			
0312	1	1571	Largescale sucker	507	1732			0			
0312	1	1572	Longnose sucker	418	658			0			
0312	1	1573	Longnose sucker	376	664			0			
0312	1	1574	Longnose sucker	376	676			0			
0312	1	1575	Longnose sucker	420	932			0			
0312	1	1576	Largescale sucker	200	94			0			
0312	1	1577	Longnose sucker	314	376			0			
0312	1	1578	Longnose sucker	361	392			0			
0312	1	1579	Mountain whitefish	385	526	Scales		2	FLOY	6090	YELLOW
0312	1	1580	Mountain whitefish	317	328	Scales		2	PIT	0A00744778	
0312	1	1581	Mountain whitefish	329	356	Scales		0	PIT	000000247612	
0312	1	1582	Mountain whitefish	295	308	Scales		2	PIT	4D00022031	
0312	1	1583	Mountain whitefish	273	216	Scales		2	PIT	000000245667	
0312	1	1584	Mountain whitefish	329	358	Scales		0	PIT	000000247554	
0312	1	1585	Mountain whitefish	378	508	Scales		2	PIT	000000247637	
0312	1	1586	Mountain whitefish	332	402	Scales		2	PIT	000000248007	
0312	1	1587	Mountain whitefish	308	314	Scales		0	PIT	000000247564	
0312	1	1588	Mountain whitefish	350	480	Scales		2	FLOY	2B3BCH 10601	
0312	1	1589	Mountain whitefish	313	376	Scales		0			
0312	1	1590	Mountain whitefish	202	86	Scales		0			
0312	1	1591	Mountain whitefish	337	356	Scales		2	PIT	0A00735919	
0312	1	1592	Mountain whitefish	353	452	Scales		2	PIT	0A00717978	
0312	1	1593	Mountain whitefish	336	342	Scales		0	PIT	000000248109	
0312	1	1594	Mountain whitefish	323	362	Scales		0	PIT	000000246683	
0312	1	1595	Mountain whitefish	262	262	Scales		2	PIT	000000247358	
0312	1	1596	Northern pikeminnow	247	168			0			
0312	1	1597	Mountain whitefish	266	206	Scales		2	PIT	000000247454	
0312	1	1598	Mountain whitefish	331	352	Scales		0	PIT	000000248144	
0312	1	1599	Mountain whitefish	148	38	Scales		0			
0312	1	1600	Mountain whitefish	184	64	Scales		0			

Appendix C Table C1. Biological characteristics data for sampled fish, 2008 Peace River Fish Community Indexing Program.

Area and Site Label	Session	FishID	Common Name	Fork Length (mm)	Weight (gm)	Age Structure	Age	Capture Code	Tag		
									Type	Number	Colour
3											
	0312	1	1601	Mountain whitefish	163	46	Scales	0			
	0312	1	1602	Mountain whitefish	139	28	Scales	0			
	0312	1	1603	Mountain whitefish	320	328	Scales	2	FLOY	16199	WHITE
	0312	1	1604	Mountain whitefish	304	308	Scales	0	PIT	000000247461	
	0312	1	1605	Mountain whitefish	156	44	Scales	0			
	0312	1	1606	Mountain whitefish	305	304	Scales	0	PIT	000000247669	
	0312	1	1607	Mountain whitefish	306	352	Scales	2	FLOY	9080	YELLOW
	0312	1	1608	Mountain whitefish	329	352	Scales	0	PIT	000000247875	
	0312	1	1609	Mountain whitefish	326	362	Scales	2	FLOY	16147	WHITE
	0312	1	1610	Mountain whitefish	313	364	Scales	2	PIT	0A00724726	
	0312	1	1611	Longnose sucker	239	176		0			
	0312	1	1612	Mountain whitefish	310	330	Scales	2	PIT	000000240802	
	0312	1	1613	Mountain whitefish	214	104	Scales	0			
	0312	1	1614	Mountain whitefish	147	40	Scales	0			
	0312	1	1615	Mountain whitefish	190	70	Scales	0			
	0312	1	1616	Mountain whitefish	200	84	Scales	0			
	0306	1	1617	Longnose sucker	427	1130		0			
	0306	1	1618	Largescale sucker	425	1030		0			
	0306	1	1619	Largescale sucker	438	1078		0			
	0306	1	1620	Largescale sucker	322	414		0			
	0306	1	1621	White sucker	310	444		0			
	0306	1	1622	Lake whitefish	448	1340	Fin Ray	0			
	0306	1	1623	Largescale sucker	442	1108		0			
	0306	1	1624	Longnose sucker	401	860		0			
	0306	1	1625	Longnose sucker	423	1028		0			
	0306	1	1626	Largescale sucker	468	1422		0			
	0306	1	1627	Longnose sucker	406	816		0			
	0306	1	1628	Longnose sucker	360	630		0			
	0306	1	1629	Longnose sucker	411	820		0			
	0306	1	1630	Walleye	544	1752		0			
	0306	1	1631	Longnose sucker	394	760		0			
	0306	1	1632	Longnose sucker	328	468		0			
	0306	1	1633	Longnose sucker	402	794		0			
	0306	1	1634	Longnose sucker	305	382		0			
	0306	1	1635	Largescale sucker	442	1236		0			
	0306	1	1636	Longnose sucker	231	160		0			
	0306	1	1637	Longnose sucker	348	606		0			
	0306	1	1638	Longnose sucker	339	502		0			
	0306	1	1639	Mountain whitefish	404	598	Scales	0	PIT	000000247470	
	0306	1	1640	Mountain whitefish	329	416	Scales	0	PIT	000000247575	
	0306	1	1641	Largescale sucker	407	872		0			
	0306	1	1642	Mountain whitefish	198	94	Scales	2			
	0306	1	1643	Mountain whitefish	338	414	Scales	2	PIT	4D00017456	
	0306	1	1644	Longnose sucker	366	654		0			
	0306	1	1645	Mountain whitefish	278	274	Scales	0	PIT	000000247632	
	0306	1	1646	Mountain whitefish	165	46	Scales	0			
	0306	1	1647	Longnose sucker	353	542		0			
	0306	1	1648	Longnose sucker	310	362		0			
	0306	1	1649	Mountain whitefish	405	656	Scales	0	PIT	000000247672	
	0306	1	1650	Mountain whitefish	424	834	Scales	2	PIT	4D00031454	
	0306	1	1651	Mountain whitefish	357	464	Scales	2	PIT	0A00744218	
	0306	1	1652	Longnose sucker	354	310		0			
	0306	1	1653	Mountain whitefish	382	644	Scales	0	PIT	000000247630	
	0306	1	1654	Mountain whitefish	355	496	Scales	7	PIT	000000247484	
	0306	1	1655	Mountain whitefish	275	238	Scales	0	PIT	000000247431	
	0306	1	1656	Longnose sucker	410	896		0			
	0306	1	1657	Largescale sucker	402	916		0			
	0306	1	1658	Mountain whitefish	451	928	Scales	0	PIT	000000247441	
	0306	1	1659	Mountain whitefish	337	406	Scales	2	FLOY	14865	WHITE
	0306	1	1660	Largescale sucker	194	98		0			
	0306	1	1661	Mountain whitefish	358	366	Scales	2	FLOY	11256	WHITE
	0306	1	1662	Mountain whitefish	374	496	Scales	2	FLOY	7517	YELLOW
	0306	1	1663	Longnose sucker	204	90		0			
	0306	1	1664	Mountain whitefish	362	462	Scales	6	PIT	000000247824	

Appendix C Table C1. Biological characteristics data for sampled fish, 2008 Peace River Fish Community Indexing Program.

Area and Site Label	Session	FishID	Common Name	Fork Length (mm)	Weight (gm)	Age Structure	Age	Capture Code	Tag		
									Type	Number	Colour
3											
0306	1	1666	Longnose sucker	311	372			0			
0306	1	1667	Bull trout	369	544	Fin Ray	3	0	PIT		:000000248232
0306	1	1668	Mountain whitefish	333	416	Scales		0	PIT		:000000247683
0306	1	1669	Mountain whitefish	344	398	Scales		0	PIT		:000000247676
0306	1	1670	Mountain whitefish	393	574	Scales		0	PIT		:000000247799
0306	1	1671	Mountain whitefish	283	308	Scales		0	PIT		:000000247625
0306	1	1672	Longnose sucker	310	372			0			
0306	1	1673	Mountain whitefish	202	90	Scales		0			
0306	1	1674	Mountain whitefish	261	188	Scales		0	PIT		:000000247640
0306	1	1675	Mountain whitefish	320	332	Scales	5	0	PIT		:000000247792
0306	1	1676	Mountain whitefish	343	420	Scales		2	PIT	0A00745313	
0306	1	1677	Mountain whitefish	292	254	Scales		0	PIT		:000000247723
0306	1	1678	Mountain whitefish	154	44	Scales		0			
0306	1	1679	Mountain whitefish	370	494	Scales		0	PIT		:000000248008
0306	1	1680	Mountain whitefish	276	228	Scales		0	PIT		:000000247481
0306	1	1681	Mountain whitefish	322	350	Scales		0	PIT		:000000247465
0306	1	1682	Longnose sucker	225	142			0			
0306	1	1683	Mountain whitefish	300	282	Scales		0	PIT		:000000247406
0306	1	1684	Mountain whitefish	285	230	Scales		0	PIT		:000000247570
0306	1	1685	Mountain whitefish	263	178	Scales		0	PIT		:000000247349
0306	1	1686	Longnose sucker	225	132			0			
0306	1	1687	Mountain whitefish	274	218	Scales	4	0	PIT		:000000248188
0306	1	1688	Rainbow trout	171	50	Fin Ray		0			
0306	1	1689	Mountain whitefish	270	232	Scales		0	PIT		:000000247501
0306	1	1690	Mountain whitefish	186	70	Scales		0			
0306	1	1691	Longnose sucker	184	66			0			
0306	1	1692	Mountain whitefish	208	100	Scales	2	0			
0306	1	1693	Longnose sucker	101	12			0			
0306	1	1694	Longnose sucker	122	22			0			
0306	1	1695	Northern pikeminnow	222				0			
0306	1	1696	Mountain whitefish	264	204	Scales		0	PIT		:000000247707
0306	1	1697	Mountain whitefish	211	94	Scales		0			
0314	1	1698	Mountain whitefish	269	270	Scales		0			
0314	1	1699	Mountain whitefish	330	360	Scales		0	PIT		:000000247724
0314	1	1700	Mountain whitefish	281	288	Scales		2	PIT	4D00020870	
0314	1	1701	Mountain whitefish	343	484	Scales		0			
0314	1	1702	Mountain whitefish	365	450	Scales		0	PIT		:000000247447
0314	1	1703	Arctic grayling	269	272	Scales	2	0	PIT		:000000247458
0314	1	1704	Mountain whitefish	353	432	Scales		0	PIT		:000000247128
0314	1	1705	Mountain whitefish	359	424	Scales		0	PIT		:000000247994
0314	1	1706	Mountain whitefish	414	696	Scales		2	PIT		:000000245466
0314	1	1707	Longnose sucker	390	678			0			
0314	1	1708	Mountain whitefish	276	244	Scales		0	PIT		:000000247984
0314	1	1709	Mountain whitefish	312	366	Scales	5	0	PIT		:000000247433
0314	1	1710	Arctic grayling	177	62	Scales	1	0			
0314	1	1711	Rainbow trout	199	96	Fin Ray		0			
0314	1	1712	Rainbow trout	152	38	Fin Ray		0			
0314	1	1713	Mountain whitefish	278	228	Scales		0	PIT		:000000247598
0314	1	1714	Mountain whitefish	263	206	Scales		0	PIT		:000000247837
0314	1	1715	Mountain whitefish	331	400	Scales		0	PIT		:000000248244
0314	1	1716	Mountain whitefish	267	230	Scales		0	PIT		:000000248057
0314	1	1717	Mountain whitefish	206	104	Scales		0			
0314	1	1718	Mountain whitefish	204	94	Scales		0			
0314	1	1719	Mountain whitefish	204	86	Scales		0			
0314	1	1720	Arctic grayling	292	352	Scales	2	0	PIT		:000000247947
0314	1	1721	Mountain whitefish	289	254	Scales		0	PIT		:000000248183
0314	1	1722	Mountain whitefish	314	420	Scales		0	PIT		:000000247807
0314	1	1723	Mountain whitefish	337	392	Scales		2	PIT		:000000245052
0314	1	1724	Mountain whitefish	302	270	Scales		5	PIT		:000000247884
0314	1	1725	Mountain whitefish	262	194	Scales		0	PIT		:000000248258
0314	1	1726	Mountain whitefish	241	168	Scales		0			
0314	1	1727	Mountain whitefish	322	312	Scales		0	PIT		:000000248124
0314	1	1728	Mountain whitefish	268	212	Scales		0	PIT		:000000248074
0314	1	1729	Mountain whitefish	199	78	Scales	2	0			

Appendix C Table C1. Biological characteristics data for sampled fish, 2008 Peace River Fish Community Indexing Program.

Area and Site Label	Session	FishID	Common Name	Fork Length (mm)	Weight (gm)	Age Structure	Age	Capture Code	Tag		
									Type	Number	Colour
3											
	0314	1	1730	Mountain whitefish	202	90	Scales	0			
	0314	1	1731	Mountain whitefish	263	224	Scales	0	PIT	000000247651	
	0314	1	1732	Mountain whitefish	235	135	Scales	0			
	0314	1	1733	Mountain whitefish	255	170	Scales	0	PIT	000000248037	
	0314	1	1734	Mountain whitefish	225	124	Scales	0			
	0314	1	1735	Mountain whitefish	188	66	Scales	0			
	0314	1	1736	Rainbow trout	224	120	Fin Ray	0			
	0314	1	1737	Mountain whitefish	271	202	Scales	0	PIT	000000247413	
	0314	1	1738	Mountain whitefish	200	86	Scales	0			
	0314	1	1739	Mountain whitefish	218	120	Scales	0			
	0314	1	1740	Mountain whitefish	149	30	Scales	0			
	0314	1	1741	Mountain whitefish	200	90	Scales	0			
	0314	1	1742	Mountain whitefish	187	74	Scales	0			
	0314	1	1743	Mountain whitefish	203	90	Scales	0			
	0314	1	1744	Mountain whitefish	215	98	Scales	0			
	0315	1	1745	Longnose sucker	413	824		0			
	0315	1	1746	Longnose sucker	409	926		0			
	0315	1	1747	Mountain whitefish	329	418	Scales	2	PIT	000000247575	
	0315	1	1748	Mountain whitefish	412	822	Scales	0	PIT	000000247848	
	0315	1	1749	Mountain whitefish	420	838	Scales	2	PIT	4D00031454	
	0315	1	1750	Mountain whitefish	330	368	Scales	2	PIT	0A00713949	
	0315	1	1751	Mountain whitefish	315	370	Scales	0	PIT	000000248134	
	0315	1	1752	Mountain whitefish	287	274	Scales	0	PIT	000000248093	
	0315	1	1753	Arctic grayling	287	312	Scales	2	0	PIT	000000247446
	0315	1	1754	Mountain whitefish	391	474	Scales	0	PIT	000000247829	
	0315	1	1755	Mountain whitefish	357	546	Scales	2	FLOY	11284	WHITE
	0315	1	1756	Longnose sucker	385	788		0			
	0315	1	1757	Mountain whitefish	372	614	Scales	5	PIT	000000248041	
	0315	1	1758	Mountain whitefish	330	392	Scales	0	PIT	000000248275	
	0315	1	1759	Mountain whitefish	325	364	Scales	0	PIT	000000247380	
	0315	1	1760	Mountain whitefish	276	250	Scales	2	PIT	000000242083	
	0315	1	1761	Mountain whitefish	345	482	Scales	0	PIT	000000247927	
	0315	1	1762	Mountain whitefish	339	420	Scales	0	PIT	000000245692	
	0315	1	1763	Mountain whitefish	334	356	Scales	2	FLOY	4410	YELLOW
	0315	1	1764	Mountain whitefish	322	370	Scales	0	PIT	000000248128	
	0315	1	1765	Mountain whitefish	303	360	Scales	0	PIT	000000247811	
	0315	1	1766	Mountain whitefish	244	164	Scales	0			
	0315	1	1767	Mountain whitefish	233	146	Scales	0			
	0315	1	1768	Mountain whitefish	225	132	Scales	0			
	0315	1	1769	Arctic grayling	187	76	Scales	1	0		
	0315	1	1770	Mountain whitefish	305	322	Scales	0	PIT	000000247891	
	0315	1	1771	Mountain whitefish	306	304	Scales	0	PIT	000000248024	
	0315	1	1772	Mountain whitefish	226	130	Scales	0			
	0315	1	1773	Mountain whitefish	221	116	Scales	0			
	0315	1	1774	Mountain whitefish	236	148	Scales	0			
	0315	1	1775	Mountain whitefish	191	84	Scales	0			
	0315	1	1776	Mountain whitefish	185	74	Scales	0			
	0315	1	1777	Mountain whitefish	149	38	Scales	0			
	0315	1	1778	Mountain whitefish	197	82	Scales	0			
	0315	1	1779	Mountain whitefish	184	68	Scales	0			
	0315	1	1780	Mountain whitefish	137	40	Scales	0			
	0315	1	1781	Mountain whitefish	337	468	Scales	0	PIT	000000247766	
	0315	1	1782	Mountain whitefish	323	406	Scales	0	PIT	000000248225	
	0315	1	1783	Mountain whitefish	265	230	Scales	0	PIT	000000248307	
	0315	1	1784	Mountain whitefish	355	492	Scales	2	PIT	0A00707845	
	0315	1	1785	Mountain whitefish	316	338	Scales	0	PIT	000000248043	
	0315	1	1786	Rainbow trout	198	98		0			
	0315	1	1787	Mountain whitefish	318	358	Scales	2	FLOY	6152	YELLOW
	0315	1	1788	Mountain whitefish	194	84	Scales	2	0		
	0315	1	1789	Mountain whitefish	206	90	Scales	0			
	0315	1	1790	Arctic grayling	193	80	Scales	1	0		
	0315	1	1791	Mountain whitefish	194	90	Scales	0			
	0315	1	1792	Mountain whitefish	141	26	Scales	0			
	0315	1	1793	Mountain whitefish	190	64	Scales	0			

Appendix C Table C1. Biological characteristics data for sampled fish, 2008 Peace River Fish Community Indexing Program.

Area and Site Label	Session	FishID	Common Name	Fork Length (mm)	Weight (gm)	Age Structure	Age	Capture Code	Tag			
									Type	Number	Colour	
3												
	0315	1	1794	Mountain whitefish	354	460	Scales	7	0	PIT	:000000247616	
	0315	1	1795	Mountain whitefish	382	592	Scales		0	PIT	:000000247389	
	0315	1	1796	Mountain whitefish	177	62	Scales	2	0			
	0315	1	1797	Mountain whitefish	319	366	Scales		0	PIT	:000000247328	
	0315	1	1798	Mountain whitefish	305	304	Scales	5	0	PIT	:000000247844	
	0315	1	1799	Mountain whitefish	300	296	Scales		0	PIT	:000000247345	
	0315	1	1800	Mountain whitefish	252	182	Scales		0	PIT	:000000248033	
	0315	1	1801	Mountain whitefish	260	196	Scales	3	0	PIT	:000000247432	
	0315	1	1802	Mountain whitefish	341	378	Scales		0	PIT	:000000248049	
	0315	1	1803	Mountain whitefish	190	84	Scales		0			
	0315	1	1804	Mountain whitefish	208	106	Scales		0			
	0315	1	1805	Mountain whitefish	247	168	Scales		0			
	0315	1	1806	Mountain whitefish	300	314	Scales		0	PIT	:000000247958	
	0315	1	1807	Mountain whitefish	201	88	Scales		0			
	0315	1	1808	Mountain whitefish	196	90	Scales		0			
	0315	1	1809	Mountain whitefish	162	46	Scales		0			
	0307	1	1810	Largescale sucker	508	1632			0			
	0307	1	1811	Longnose sucker	379	646			0			
	0307	1	1812	Longnose sucker	427	948			0			
	0307	1	1813	Largescale sucker	421	858			0			
	0307	1	1814	Longnose sucker	336	478			0			
	0307	1	1815	Largescale sucker	443	1198			0			
	0307	1	1816	Arctic grayling	183	70	Scales	1	0			
	0307	1	1817	Bull trout	443	760	Fin Ray	4	0	PIT	:000000248021	
	0307	1	1818	Bull trout	485	1116	Fin Ray	5	0	PIT	:000000247440	
	0307	1	1819	Mountain whitefish	425	804	Scales		2	FLOY	16176	WHITE
	0307	1	1820	Mountain whitefish	269	248	Scales		0			
	0307	1	1821	Mountain whitefish	306	338	Scales		0			
	0307	1	1822	Mountain whitefish	413	630	Scales		2	FLOY	4382	YELLOW
	0307	1	1823	Mountain whitefish	310	356	Scales		2	PIT	:000000247811	
	0307	1	1824	Mountain whitefish	410	678	Scales		0	PIT	:000000247797	
	0307	1	1825	Mountain whitefish	383	576	Scales		2	FLOY	4350	YELLOW
	0307	1	1826	Mountain whitefish	367	512	Scales		0	PIT	:000000247375	
	0307	1	1827	Mountain whitefish	337	428	Scales		0	PIT	:000000248101	
	0307	1	1828	Longnose sucker	373	668			0			
	0307	1	1829	Mountain whitefish	409	640	Scales		0	PIT	:000000247870	
	0307	1	1830	Mountain whitefish	305	308	Scales		0	PIT	:000000247854	
	0307	1	1831	Mountain whitefish	351	456	Scales		0	PIT	:000000247962	
	0307	1	1832	Mountain whitefish	350	484	Scales		2	PIT	:000000247927	
	0307	1	1833	Mountain whitefish	345	416	Scales		2	PIT	:000000246996	
	0307	1	1834	Mountain whitefish	343	384	Scales	7	0	PIT	:000000248190	
	0307	1	1835	Mountain whitefish	389	562	Scales		0	PIT	:000000247514	
	0307	1	1836	Mountain whitefish	347	408	Scales		2	FLOY	16480	WHITE
	0307	1	1837	Mountain whitefish	292	270	Scales		2	PIT	:000000243871	
	0307	1	1838	Mountain whitefish	357	504	Scales		2	FLOY	9020	YELLOW
	0307	1	1839	Mountain whitefish	326	364	Scales		0	PIT	:000000247336	
	0307	1	1840	Mountain whitefish	314	312	Scales		2	PIT	:000000247844	
	0307	1	1841	Bull trout	375	558	Fin Ray	4	0	PIT	:000000247934	
	0307	1	1842	Mountain whitefish	333	374	Scales		2	FLOY	14858	WHITE
	0307	1	1843	Mountain whitefish	328	390	Scales		0	PIT	:000000248278	
	0307	1	1844	Mountain whitefish	340	420	Scales		0	PIT	:000000247685	
	0307	1	1845	Mountain whitefish	311	352	Scales		0	PIT	:000000247378	
	0307	1	1846	Mountain whitefish	307	304	Scales	5	0	PIT	:000000247949	
	0307	1	1847	Mountain whitefish	310	326	Scales		0	PIT	:000000248177	
	0307	1	1848	Mountain whitefish	337	392	Scales		0	PIT	:000000247738	
	0307	1	1849	Mountain whitefish	316	314	Scales		0	PIT	:000000247496	
	0307	1	1850	Mountain whitefish	316	332	Scales		0	PIT	:000000248237	
	0307	1	1851	Mountain whitefish	255	192	Scales		0	PIT	:000000247629	
	0307	1	1852	Mountain whitefish	268	190	Scales	3	0	PIT	:000000248200	
	0307	1	1853	Mountain whitefish	294	266	Scales		0	PIT	:000000247586	
	0307	1	1854	Mountain whitefish	250	148	Scales		0	PIT	:000000246995	
	0307	1	1855	Mountain whitefish	179	50	Scales		0			
	0307	1	1856	Mountain whitefish	186	66	Scales	2	0			
	0307	1	1857	Mountain whitefish	188	64	Scales		0			

Appendix C Table C1. Biological characteristics data for sampled fish, 2008 Peace River Fish Community Indexing Program.

Area and Site Label	Session	FishID	Common Name	Fork Length (mm)	Weight (gm)	Age Structure	Age	Capture Code	Tag		
									Type	Number	Colour
3											
0307	1	1858	Mountain whitefish	246	144	Scales		0			
0307	1	1859	Mountain whitefish	242	162	Scales		0			
0307	1	1860	Mountain whitefish	271	194	Scales		2	PIT	000000245952	
0307	1	1861	Mountain whitefish	196	84	Scales		0			
0307	1	1862	Mountain whitefish	293	250	Scales		0	PIT	000000246686	
0307	1	1863	Mountain whitefish	205	86	Scales		0			
0307	1	1864	Mountain whitefish	203	80	Scales		0			
0307	1	1865	Mountain whitefish	206	84	Scales		0			
0307	1	1866	Mountain whitefish	180	58	Scales		0			
0307	1	1867	Mountain whitefish	212	94	Scales	2	0			
0307	1	1868	Mountain whitefish	188	60	Scales		0			
0307	1	1869	Mountain whitefish	187	64	Scales		0			
0307	1	1870	Mountain whitefish	211	90	Scales	2	0			
0307	1	1871	Mountain whitefish	185	60	Scales		0			
0307	1	1872	Mountain whitefish	150	40	Scales		0			
0307	1	1873	Mountain whitefish	198	76	Scales		0			
0307	1	1874	Mountain whitefish	206	98	Scales		0			
0307	1	1875	Mountain whitefish	160	44	Scales		0			
0307	1	1876	Mountain whitefish	199	84	Scales		0			
0307	1	1877	Mountain whitefish	188	68	Scales		0			
0316	1	1878	Longnose sucker	370	648			0			
0316	1	1879	Longnose sucker	407				0			
0316	1	1880	Longnose sucker	328	486			0			
0316	1	1881	Arctic grayling	387	770	Scales	4	0	PIT	000000245719	
0316	1	1882	Arctic grayling	264	244	Scales	2	0			
0316	1	1883	Bull trout	567	2178	Fin Ray	5	0	PIT	000000247519	
0316	1	1884	Arctic grayling	280	298	Scales	2	0	PIT	000000247827	
0316	1	1885	Mountain whitefish	266	224	Scales	4	0			
0316	1	1886	Mountain whitefish	357	426	Scales		0	PIT	000000247921	
0316	1	1887	Arctic grayling	268	256	Scales	2	0	PIT	000000247563	
0316	1	1888	Bull trout	333	426	Fin Ray	3	0	PIT	000000248039	
0316	1	1889	Bull trout	428	778	Fin Ray	4	0	PIT	000000247444	
0316	1	1890	Bull trout	341	634	Fin Ray	4	0	PIT	000000248220	
0316	1	1891	Arctic grayling	342	546	Scales	3	1			
0316	1	1892	Longnose sucker	341	488			0			
0316	1	1893	Mountain whitefish	330	370	Scales		2	PIT	0A00724273	
0316	1	1894	Mountain whitefish	344	430	Scales		0	PIT	000000247826	
0316	1	1895	Mountain whitefish	286	308	Scales		0	PIT	000000248138	
0316	1	1896	Longnose sucker	424	962			0			
0316	1	1897	Mountain whitefish	322	376	Scales		2	FLOY	4443 YELLOW	
0316	1	1898	Mountain whitefish	317	360	Scales		2	PIT	000000244705	
0316	1	1899	Mountain whitefish	343	408	Scales		0	PIT	000000247740	
0316	1	1900	Mountain whitefish	364	512	Scales		0	PIT	000000247522	
0316	1	1901	Mountain whitefish	287	292	Scales		0	PIT	000000247805	
0316	1	1902	Mountain whitefish	313	342	Scales		2	PIT	000000248237	
0316	1	1903	Longnose sucker	383	784			0			
0316	1	1904	Mountain whitefish	267	208	Scales		0	PIT	000000245648	
0316	1	1905	Mountain whitefish	259	208	Scales		0	PIT	000000247456	
0316	1	1906	Mountain whitefish	249	148	Scales		0			
0316	1	1907	Mountain whitefish	265	222	Scales		0	PIT	000000247790	
0316	1	1908	Mountain whitefish	253	196	Scales	4	0	PIT	000000247464	
0316	1	1909	Mountain whitefish	279	224	Scales		0	PIT	000000247662	
0316	1	1910	Mountain whitefish	205	96	Scales		0			
0316	1	1911	Mountain whitefish	210	102	Scales		0			
0316	1	1912	Mountain whitefish	299	298	Scales		2	PIT	000000243842	
0316	1	1913	Mountain whitefish	207	98	Scales		0			
0316	1	1914	Mountain whitefish	296	272	Scales		0	PIT	000000247860	
0316	1	1915	Mountain whitefish	248	172	Scales		0			
0316	1	1916	Mountain whitefish	186	90	Scales		0			
0316	1	1917	Mountain whitefish	269	206	Scales		0	PIT	000000248306	
0316	1	1918	Mountain whitefish	204	100	Scales		0			
0316	1	1919	Mountain whitefish	298	310	Scales		0	PIT	000000248266	
0316	1	1920	Mountain whitefish	241	174	Scales		0			
0316	1	1921	Mountain whitefish	247	170	Scales	3	0			

Appendix C Table C1. Biological characteristics data for sampled fish, 2008 Peace River Fish Community Indexing Program.

Area and Site Label	Session	FishID	Common Name	Fork Length (mm)	Weight (gm)	Age Structure	Age	Capture Code	Tag		
									Type	Number	Colour
3											
0316	1	1922	Mountain whitefish	245	168	Scales	3	0			
0316	1	1923	Mountain whitefish	236	162	Scales		0			
0316	1	1924	Mountain whitefish	235	160	Scales		0			
0316	1	1925	Mountain whitefish	209	102	Scales		0			
0316	1	1926	Mountain whitefish	193	92	Scales		0			
0316	1	1927	Mountain whitefish	292	278	Scales	4	0	PIT	000000247344	
0316	1	1928	Mountain whitefish	198	84	Scales		0			
0316	1	1929	Mountain whitefish	207	100	Scales		0			
0316	1	1930	Mountain whitefish	210	100	Scales		0			
0316	1	1931	Mountain whitefish	199	88	Scales		0			
0316	1	1932	Mountain whitefish	194	80	Scales		0			
0316	1	1933	Mountain whitefish	176	60	Scales		0			
0316	1	1934	Mountain whitefish	197	84	Scales		0			
0316	1	1935	Mountain whitefish	152	40	Scales		0			
0316	1	1936	Mountain whitefish	202	84	Scales		0			
0316	1	1937	Mountain whitefish	199	114	Scales		0			
0316	1	1938	Mountain whitefish	158	40	Scales		0			
0316	1	1939	Mountain whitefish	188	90	Scales	2	0			
0316	1	1940	Mountain whitefish	214	84	Scales		0			
0316	1	1941	Mountain whitefish	194	86	Scales		0			
0316	1	1942	Mountain whitefish	146	38	Scales		0			
0316	1	1943	Mountain whitefish	146	36	Scales		0			
0316	1	1944	Rainbow trout	210	124			0			
0316	1	1945	Rainbow trout	162	50			0			
0316	1	1946	Mountain whitefish	327	390	Scales		2	PIT	000000244340	
0316	1	1947	Mountain whitefish	272	226	Scales		0	PIT	000000247404	
0316	1	1948	Mountain whitefish	242	162	Scales		0			
0316	1	1949	Mountain whitefish	230	134	Scales	3	0			
0316	1	1950	Mountain whitefish	194	78	Scales		0			
0316	1	1951	Mountain whitefish	183	70	Scales		0			
0316	1	1952	Mountain whitefish	246	176	Scales		0			
0316	1	1953	Mountain whitefish	239	148	Scales	3	0			
0316	1	1954	Mountain whitefish	294	302	Scales		0	PIT	000000248130	
0316	1	1955	Mountain whitefish	224	110	Scales		0			
0316	1	1956	Mountain whitefish	185	82	Scales		0			
0316	1	1957	Mountain whitefish	206	96	Scales	2	0			
0316	1	1958	Mountain whitefish	204	92	Scales		0			
0316	1	1959	Mountain whitefish	194	74	Scales		0			
0316	1	1960	Mountain whitefish	207	100	Scales		0			
0316	1	1961	Mountain whitefish	183	66	Scales		0			
0316	1	1962	Mountain whitefish	210	106	Scales		0			
0316	1	1963	Mountain whitefish	176	72	Scales		0			
0316	1	1964	Mountain whitefish	197	94	Scales	2	0			
0316	1	1965	Rainbow trout	104	16			0			
0316	1	1966	Mountain whitefish	220	122	Scales		0			
0316	1	1967	Mountain whitefish	183	74	Scales		0			
0316	1	1968	Mountain whitefish	202	84	Scales		0			
0316	1	1969	Mountain whitefish	190	84	Scales		0			
0316	1	1970	Mountain whitefish	195	76	Scales		0			
0316	1	1971	Mountain whitefish	214	114	Scales		0			
0316	1	1972	Mountain whitefish	194	84	Scales		0			
0316	1	1973	Mountain whitefish	192	74	Scales		0			
0316	1	1974	Mountain whitefish	257	216	Scales		0	PIT	000000247466	
0316	1	1975	Mountain whitefish	244	160	Scales		0			
0316	1	1976	Mountain whitefish	272	236	Scales		0	PIT	000000247396	
0316	1	1977	Mountain whitefish	217	106	Scales		0			
0316	1	1978	Mountain whitefish	209	102	Scales	2	0			
0316	1	1979	Mountain whitefish	253	192	Scales	4	0	PIT	000000247367	
0316	1	1980	Mountain whitefish	233	130	Scales		0			
0308	1	1981	Mountain whitefish	286	234	Scales		0	PIT	000000246914	
0308	1	1982	Mountain whitefish	340	364	Scales		0			
0308	1	1983	Mountain whitefish	360	450	Scales		0	PIT	000000245482	
0308	1	1984	Mountain whitefish	352	460	Scales		2	PIT	000000246005	
0308	1	1985	Mountain whitefish	325	400	Scales		0	PIT	000000246820	

Appendix C Table C1. Biological characteristics data for sampled fish, 2008 Peace River Fish Community Indexing Program.

Area and Site Label	Session	FishID	Common Name	Fork Length (mm)	Weight (gm)	Age Structure	Age	Capture Code	Tag		
									Type	Number	Colour
3											
0308	1	1986	Mountain whitefish	316	352	Scales		0	PIT		:000000246587
0308	1	1987	Mountain whitefish	356	490	Scales	6	0	PIT		:000000243525
0308	1	1988	Mountain whitefish	350	430	Scales		2	PIT		:000000245569
0308	1	1989	Mountain whitefish	311		Scales		0	PIT		:000000245969
0308	1	1990	Bull trout	576	1948		7	2	FLOY		16378 WHITE
0308	1	1991	Longnose sucker	373	624			0			
0308	1	1992	Mountain whitefish	308	342	Scales		0	PIT		:000000246445
0308	1	1993	Mountain whitefish	436	866	Scales		2	FLOY		14815 WHITE
0308	1	1994	Mountain whitefish	463	1110	Scales		2	FLOY		4404 YELLOW
0308	1	1995	Mountain whitefish	365	504	Scales		2	PIT		4D00035615
0308	1	1996	Mountain whitefish	360	478	Scales		0	PIT		:000000246191
0308	1	1997	Mountain whitefish	377	606	Scales		0	PIT		:000000246538
0308	1	1998	Mountain whitefish	366	528	Scales		0	PIT		:000000247048
0308	1	1999	Mountain whitefish	312	384	Scales		0	PIT		:000000247263
0308	1	2000	Mountain whitefish	293	304	Scales		2	PIT		0A00736172
0308	1	2001	Mountain whitefish	348	450	Scales		2	PIT		0A00735576
0308	1	2002	Mountain whitefish	263	202	Scales	4	0	PIT		:000000245407
0308	1	2003	Mountain whitefish	345	424	Scales		0	PIT		:000000243396
0308	1	2004	Mountain whitefish	272	230	Scales		0	PIT		:000000245931
0308	1	2005	Mountain whitefish	323	298	Scales		0	PIT		:000000246858
0308	1	2006	Mountain whitefish	353	488	Scales		5	PIT		:000000246399
0308	1	2007	Mountain whitefish	299	298	Scales		0	PIT		:000000246564
0308	1	2008	Mountain whitefish	373	534	Scales		0	PIT		:000000246409
0308	1	2009	Mountain whitefish	288	316	Scales		2	PIT		:000000244497
0308	1	2010	Mountain whitefish	350	488	Scales		2	FLOY		4402 YELLOW
0308	1	2011	Mountain whitefish	343	432	Scales	5	0	PIT		:000000246563
0308	1	2012	Longnose sucker	327	468			0			
0308	1	2013	Mountain whitefish	317	348	Scales		2	PIT		0A00714574
0308	1	2014	Mountain whitefish	340	384	Scales		2	PIT		:000000245068
0308	1	2015	Mountain whitefish	303	298	Scales		0	PIT		:000000245809
0308	1	2016	Mountain whitefish	307	310	Scales		2	FLOY		16186 WHITE
0308	1	2017	Mountain whitefish	321	326	Scales		2	PIT		4D00024410
0308	1	2018	Mountain whitefish	298	266	Scales		2	PIT		:000000240782
0308	1	2019	Mountain whitefish	330	382	Scales		2	PIT		4D00027942
0308	1	2020	Mountain whitefish	327	322	Scales		2	PIT		0A00707960
0308	1	2021	Mountain whitefish	328	354	Scales		0	PIT		:000000246774
0308	1	2022	Mountain whitefish	318	334	Scales		0	PIT		:000000246720
0308	1	2023	Mountain whitefish	245	178	Scales		0			
0308	1	2024	Rainbow trout	168	52			0			
0308	1	2025	Mountain whitefish	262	218	Scales		0	PIT		:000000247855
0308	1	2026	Mountain whitefish	214	112	Scales	2	0			
0308	1	2027	Mountain whitefish	293	250	Scales		2	PIT		:000000244598
0308	1	2028	Mountain whitefish	308	322	Scales		0	PIT		:000000247761
0308	1	2029	Mountain whitefish	373	486	Scales		2	PIT		:000000241059
0308	1	2030	Mountain whitefish	246	162	Scales		0			
0308	1	2031	Mountain whitefish	202	84	Scales		0			
0308	1	2032	Mountain whitefish	206	86	Scales		0			
0308	1	2033	Mountain whitefish	192	78	Scales		0			
0308	1	2034	Mountain whitefish	231	138	Scales		0			
0308	1	2035	Mountain whitefish	188	70	Scales		0			
0308	1	2036	Mountain whitefish	314	328	Scales		0	PIT		:000000248078
0308	1	2037	Mountain whitefish	209	84	Scales	2	0			
0308	1	2038	Mountain whitefish	249	162	Scales		0			
0308	1	2039	Mountain whitefish	194	78	Scales		0			
0308	1	2040	Mountain whitefish	206	94	Scales		0			
0308	1	2041	Mountain whitefish	200	84	Scales		0			
0308	1	2042	Mountain whitefish	197	72	Scales		0			
0308	1	2043	Mountain whitefish	238	138	Scales		0			
0308	1	2044	Mountain whitefish	195	74	Scales		0			
0308	1	2045	Mountain whitefish	185	64	Scales		0			
0308	1	2046	Mountain whitefish	318	382	Scales		0	PIT		:000000248005
0308	1	2047	Mountain whitefish	305	298	Scales		2	PIT		:000000244675
0308	1	2048	Mountain whitefish	250	172	Scales		0	PIT		:000000247402
0308	1	2049	Mountain whitefish	198	80	Scales		0			

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Area and Site Label	Session	FishID	Common Name	Fork Length (mm)	Weight (gm)	Age Structure	Age	Capture Code	Tag		
									Type	Number	Colour
3											
0308	1	2050	Mountain whitefish	220	118	Scales		0			
0308	1	2051	Mountain whitefish	159	46	Scales		0			
0308	1	2052	Mountain whitefish	302	274	Scales		0	PIT	000000247577	
0308	1	2053	Mountain whitefish	155	38	Scales		0			
0308	1	2054	Mountain whitefish	252	174	Scales	3	0	PIT	000000247973	
0308	1	2055	Mountain whitefish	202	84	Scales		0			
0303	2	3539	Largescale sucker	302	324	Fin Ray		0			
0303	2	3540	Longnose sucker	393	602			0			
0303	2	3541	Longnose sucker	405	834			0			
0303	2	3542	Largescale sucker	420	980			0			
0303	2	3543	Longnose sucker	317	418			0			
0303	2	3544	Longnose sucker	315	360			0			
0303	2	3545	Largescale sucker	282	250			0			
0303	2	3546	Northern pikeminnow	436	650			0			
0303	2	3547	Longnose sucker	339	464			0			
0303	2	3548	Longnose sucker	358	610			0			
0303	2	3549	Longnose sucker	324	372			0			
0303	2	3550	Largescale sucker	437	1018			0			
0303	2	3551	Longnose sucker	358	552			0			
0303	2	3552	Longnose sucker	428	946			0			
0303	2	3553	Longnose sucker	401	750			0			
0303	2	3554	Largescale sucker	239	170			0			
0303	2	3555	Rainbow trout	169	50			0			
0303	2	3556	Mountain whitefish	345	450	Scales		0	PIT	000000090172	
0303	2	3557	Mountain whitefish	358	504	Scales		0	PIT	000000090306	
0303	2	3558	Mountain whitefish	373	546	Scales		0	PIT	000000080871	
0303	2	3559	Mountain whitefish	389	604	Scales		2	FLOY	8853	YELLOW
0303	2	3560	Mountain whitefish	356	420	Scales		2	FLOY	3952	YELLOW
0303	2	3561	Mountain whitefish	420	710	Scales	9	0	PIT	000000087446	
0303	2	3562	Mountain whitefish	379	630	Scales		0	PIT	000000079041	
0303	2	3563	Mountain whitefish	318	390	Scales		0	PIT	000000091788	
0303	2	3564	Mountain whitefish	350	448	Scales		2	FLOY	6041	YELLOW
0303	2	3565	Mountain whitefish	339	430	Scales		0	PIT	000000085721	
0303	2	3566	Mountain whitefish	340	398	Scales		2	FLOY	6028	YELLOW
0303	2	3567	Mountain whitefish	280	256	Scales		0	PIT	000000081469	
0303	2	3568	Mountain whitefish	340	362	Scales		2	FLOY	13561	WHITE
0303	2	3569	Mountain whitefish	288	254	Scales		2	PIT	000000246183	
0303	2	3570	Mountain whitefish	385	532	Scales		2	PIT	0A00725857	
0303	2	3571	Mountain whitefish	347	460	Scales		0	PIT	000000081942	
0303	2	3572	Mountain whitefish	306	338	Scales		0	PIT	000000077366	
0303	2	3573	Mountain whitefish	303	386	Scales		2	PIT	000000246733	
0303	2	3574	Mountain whitefish	352	362	Scales		2	PIT	0A00734100	
0303	2	3575	Mountain whitefish	281	226	Scales		0	PIT	000000073059	
0303	2	3576	Mountain whitefish	296	252	Scales		2	PIT	4D00015702	
0303	2	3577	Mountain whitefish	321	362	Scales		0	PIT	000000078099	
0303	2	3578	Mountain whitefish	345	396	Scales		0	PIT	000000083496	
0303	2	3579	Mountain whitefish	285	272	Scales		0	PIT	000000076956	
0303	2	3580	Mountain whitefish	306	278	Scales		0	PIT	000000244852	
0303	2	3581	Mountain whitefish	295	318	Scales	5	0	PIT	000000079722	
0303	2	3582	Mountain whitefish	275	226	Scales		2	PIT	000000247794	
0303	2	3583	Mountain whitefish	322	372	Scales	5	0	PIT	000000083967	
0303	2	3584	Mountain whitefish	277	244	Scales		0	PIT	000000087535	
0303	2	3585	Mountain whitefish	270	228	Scales		0	PIT	000000110227	
0303	2	3586	Mountain whitefish	245	192	Scales		0			
0303	2	3587	Mountain whitefish	245	144	Scales		0			
0303	2	3588	Mountain whitefish	347	428	Scales		2	FLOY	10301	YELLOW
0303	2	3589	Mountain whitefish	320	368	Scales		0	PIT	000000084896	
0303	2	3590	Mountain whitefish	308	320	Scales		0	PIT	000000078433	
0303	2	3591	Mountain whitefish	290	254	Scales		2	PIT	000000244715	
0303	2	3592	Mountain whitefish	294	268	Scales		2	PIT	000000243520	
0303	2	3593	Mountain whitefish	240	152	Scales	3	0			
0303	2	3594	Mountain whitefish	283	246	Scales	5	0	PIT	000000085126	
0303	2	3595	Mountain whitefish	268	212	Scales		0	PIT	000000078063	
0303	2	3596	Mountain whitefish	307	308	Scales	4	0	PIT	000000088095	

Appendix C Table C1. Biological characteristics data for sampled fish, 2008 Peace River Fish Community Indexing Program.

Area and Site Label	Session	FishID	Common Name	Fork Length (mm)	Weight (gm)	Age Structure	Age	Capture Code	Tag		
									Type	Number	Colour
3											
0303	2	3597	Mountain whitefish	305	288	Scales		2	PIT		000000247435
0303	2	3598	Mountain whitefish	280	250	Scales		0	PIT		000000077360
0303	2	3599	Mountain whitefish	345	474	Scales	7	2	PIT		4D00022745
0303	2	3600	Mountain whitefish	260	240	Scales	4	0	PIT		000000089135
0303	2	3601	Mountain whitefish	284	234	Scales		0	PIT		000000077915
0303	2	3602	Mountain whitefish	244	168	Scales		0			
0303	2	3603	Mountain whitefish	279	226	Scales		0	PIT		000000089475
0303	2	3604	Mountain whitefish	241	166	Scales		0			
0303	2	3605	Mountain whitefish	214	106	Scales		0			
0303	2	3606	Mountain whitefish	183	60	Scales		0			
0303	2	3607	Mountain whitefish	194	88	Scales		0			
0303	2	3608	Mountain whitefish	210	118	Scales		0			
0303	2	3609	Mountain whitefish	203	90	Scales		0			
0303	2	3610	Mountain whitefish	215	104	Scales	2	0			
0303	2	3611	Mountain whitefish	197	80	Scales		0			
0303	2	3612	Mountain whitefish	190	78	Scales		0			
0303	2	3613	Mountain whitefish	205	90	Scales		0			
0303	2	3614	Mountain whitefish	203	96	Scales		0			
0303	2	3615	Mountain whitefish	288	250	Scales		0	PIT		000000076817
0303	2	3616	Mountain whitefish	293	220	Scales		0	PIT		000000088904
0303	2	3617	Mountain whitefish	298	266	Scales		0	PIT		000000090313
0303	2	3618	Mountain whitefish	290	264	Scales		2	PIT		000000243349
0303	2	3619	Mountain whitefish	202	86	Scales		0			
0303	2	3620	Mountain whitefish	215	98	Scales	2	0			
0303	2	3621	Mountain whitefish	201	82	Scales	2	0			
0303	2	3622	Mountain whitefish	153	42	Scales	1	0			
0303	2	3623	Mountain whitefish	186	60	Scales	2	0			
0301	2	3624	Kokanee	257	224			0			
0301	2	3625	Longnose sucker	377	674			0			
0301	2	3626	Largescale sucker	475	1314	Fin Ray		0			
0301	2	3627	Bull trout	408	652		5	2	PIT		000000239259
0301	2	3628	Mountain whitefish	377	634	Scales		2	PIT		000000079041
0301	2	3629	Kokanee	112	12			0			
0301	2	3630	Arctic grayling	246	188	Scales	2	0			
0301	2	3631	Arctic grayling	334	468	Scales	3	0	PIT		000000248080
0301	2	3632	Mountain whitefish	347	396	Scales	6	0	PIT		000000247819
0301	2	3633	Mountain whitefish	277	290	Scales		0	PIT		000000247377
0301	2	3634	Mountain whitefish	260	182	Scales	3	0	PIT		000000247667
0301	2	3635	Mountain whitefish	273	228	Scales		0	PIT		000000247370
0301	2	3636	Mountain whitefish	304	308	Scales		0	PIT		000000246444
0301	2	3637	Mountain whitefish	277	222	Scales		0	PIT		000000247324
0301	2	3638	Mountain whitefish	288	284	Scales		0	PIT		000000247812
0301	2	3639	Mountain whitefish	288	264	Scales		0	PIT		000000247434
0301	2	3640	Arctic grayling	202	122	Scales	2	0			
0301	2	3641	Mountain whitefish	272	232	Scales		2	PIT		000000238793
0301	2	3642	Mountain whitefish	242	152	Scales		0			
0301	2	3643	Mountain whitefish	204	90	Scales		0			
0301	2	3644	Mountain whitefish	274	210	Scales		0	PIT		000000248288
0301	2	3645	Mountain whitefish	269	238	Scales		0	PIT		000000248114
0301	2	3646	Mountain whitefish	208	88	Scales		0			
0301	2	3647	Mountain whitefish	232	144	Scales	3	0			
0301	2	3648	Mountain whitefish	203	94	Scales		0			
0301	2	3649	Mountain whitefish	189	70	Scales		0			
0301	2	3650	Mountain whitefish	200	80	Scales		0			
0301	2	3651	Mountain whitefish	167	44	Scales		0			
0301	2	3652	Mountain whitefish	202	92	Scales		0			
0301	2	3653	Mountain whitefish	209	94	Scales	2	0			
0301	2	3654	Mountain whitefish	239	142	Scales		0			
0301	2	3655	Mountain whitefish	148	34	Scales		0			
0301	2	3656	Mountain whitefish	349	480	Scales	7	0	PIT		000000247881
0301	2	3657	Mountain whitefish	277	230	Scales		0	PIT		000000248310
0301	2	3658	Mountain whitefish	207	96	Scales		0			
0301	2	3659	Mountain whitefish	224	128	Scales		0			
0301	2	3660	Mountain whitefish	200	96	Scales		0			

Appendix C Table C1. Biological characteristics data for sampled fish, 2008 Peace River Fish Community Indexing Program.

Area and Site Label	Session	FishID	Common Name	Fork Length (mm)	Weight (gm)	Age Structure	Age	Capture Code	Tag		
									Type	Number	Colour
3											
0301	2	3661	Mountain whitefish	255	194	Scales		2	PIT	000000247156	
0301	2	3662	Mountain whitefish	211	108	Scales		0			
0301	2	3663	Mountain whitefish	217	100	Scales		0			
0301	2	3664	Mountain whitefish	258	210	Scales		2	PIT	000000244182	
0301	2	3665	Mountain whitefish	205	114	Scales		0			
0301	2	3666	Mountain whitefish	206	94	Scales		0			
0301	2	3667	Mountain whitefish	197	88	Scales		0			
0301	2	3668	Mountain whitefish	194	80	Scales		0			
0301	2	3669	Mountain whitefish	204	84	Scales		0			
0301	2	3670	Mountain whitefish	183	60	Scales		0			
0301	2	3671	Mountain whitefish	207	96	Scales		0			
0301	2	3672	Mountain whitefish	194	70	Scales		0			
0301	2	3673	Mountain whitefish	247	178	Scales		0			
0301	2	3674	Mountain whitefish	267	214	Scales		0	PIT	000000247348	
0301	2	3675	Mountain whitefish	274	228	Scales		0	PIT	000000248004	
0301	2	3676	Mountain whitefish	198	82	Scales		0			
0302	2	3677	Longnose sucker	374				0			
0302	2	3678	Longnose sucker	375				0			
0302	2	3679	Longnose sucker	296				0			
0302	2	3680	Longnose sucker	371	608			0			
0302	2	3681	Longnose sucker	427	974			0			
0302	2	3682	Longnose sucker	382	694			0			
0302	2	3683	Longnose sucker	368	596			0			
0302	2	3684	Longnose sucker	353	586			0			
0302	2	3685	Longnose sucker	414	968			0			
0302	2	3686	Longnose sucker	339	462			0			
0302	2	3687	Longnose sucker	404	912			0			
0302	2	3688	Mountain whitefish	361	528	Scales		2	PIT	0A00727840	
0302	2	3689	Mountain whitefish	389	548	Scales		2	FLOY	12424	WHITE
0302	2	3690	Mountain whitefish	300	292	Scales		2	PIT	000000245302	
0302	2	3691	Mountain whitefish	355	502	Scales		0	PIT	000000247993	
0302	2	3692	Mountain whitefish	364	536	Scales		2	PIT	4D00025557	
0302	2	3693	Mountain whitefish	404	628	Scales		2	FLOY	11211	WHITE
0302	2	3694	Mountain whitefish	413	776	Scales		0	PIT	000000247877	
0302	2	3695	Mountain whitefish	402	636	Scales		2	FLOY	14652	WHITE
0302	2	3696	Mountain whitefish	428	898	Scales		2	PIT	4D00013339	
0302	2	3697	Bull trout	385	576			2	PIT	000000246835	
0302	2	3698	Longnose sucker	343	586			0			
0302	2	3699	Mountain whitefish	381	606	Scales		2	PIT	0A00711119	
0302	2	3700	Mountain whitefish	355	426	Scales		2	PIT	000000246989	
0302	2	3701	Mountain whitefish	417		Scales	5	0	PIT	000000248189	
0302	2	3702	Mountain whitefish	313	312	Scales		2	FLOY	10306	YELLOW
0302	2	3703	Mountain whitefish	325	416	Scales		2	PIT	000000246880	
0302	2	3704	Mountain whitefish	351	458	Scales		0	PIT	000000248066	
0302	2	3705	Mountain whitefish	425	824	Scales		2	PIT	000000245953	
0302	2	3706	Rainbow trout	202				0			
0302	2	3707	Mountain whitefish	335	382	Scales		0	PIT	000000077105	
0302	2	3708	Mountain whitefish	320	410	Scales		2	PIT	4D00026615	
0302	2	3709	Mountain whitefish	345	426	Scales		0	PIT	000000084415	
0302	2	3710	Mountain whitefish	275	242	Scales		0	PIT	000000080756	
0302	2	3711	Mountain whitefish	365	446	Scales		0	PIT	000000079031	
0302	2	3712	Mountain whitefish	404	668	Scales		0	PIT	000000091797	
0302	2	3713	Mountain whitefish	349	454	Scales		0	PIT	000000078308	
0302	2	3714	Mountain whitefish	286	234	Scales		0	PIT	000000073153	
0302	2	3715	Mountain whitefish	264	214	Scales		0	PIT	000000093222	
0302	2	3716	Mountain whitefish	315	360	Scales		2	PIT	000000244539	
0302	2	3717	Mountain whitefish	252	196	Scales		0	PIT	000000090031	
0302	2	3718	Mountain whitefish	315	376	Scales		2	FLOY	11352	WHITE
0302	2	3719	Mountain whitefish	360	450	Scales		2	PIT	0A00716812	
0302	2	3720	Mountain whitefish	304	314	Scales		2	PIT	000000244517	
0302	2	3721	Mountain whitefish	355	498	Scales		2	PIT	000000244501	
0302	2	3722	Mountain whitefish	276	240	Scales		0	PIT	000000086624	
0302	2	3723	Mountain whitefish	350	422	Scales		2	FLOY	7291	YELLOW
0302	2	3724	Mountain whitefish	293	314	Scales		2	PIT	000000243787	

Appendix C Table C1. Biological characteristics data for sampled fish, 2008 Peace River Fish Community Indexing Program.

Area and Site Label	Session	FishID	Common Name	Fork Length (mm)	Weight (gm)	Age Structure	Age	Capture Code	Tag		
									Type	Number	Colour
3											
	0302	2	3725	Mountain whitefish	280	268	Scales	0	PIT		:000000086084
	0302	2	3726	Mountain whitefish	288	288	Scales	0	PIT		:000000081700
	0302	2	3727	Mountain whitefish	274	216	Scales	2	PIT		:000000244805
	0302	2	3728	Mountain whitefish	216	122	Scales	0			
	0302	2	3729	Mountain whitefish	197	80	Scales	0			
	0302	2	3730	Mountain whitefish	314	334	Scales	2	PIT		:000000237764
	0302	2	3731	Mountain whitefish	298	308	Scales	0	PIT		:000000086125
	0302	2	3732	Mountain whitefish	336	376	Scales	2	PIT		0A00744236
	0302	2	3733	Mountain whitefish	301	312	Scales	2	PIT		0A00746759
	0302	2	3734	Mountain whitefish	308	322	Scales	4	0	PIT	:000000092266
	0302	2	3735	Mountain whitefish	273	252	Scales	0	PIT		:000000077392
	0302	2	3736	Mountain whitefish	277	240	Scales	0	PIT		:000000076845
	0302	2	3737	Mountain whitefish	278	236	Scales	0	PIT		:000000083817
	0302	2	3738	Mountain whitefish	218	110	Scales	0			
	0302	2	3739	Mountain whitefish	219	120	Scales	0			
	0302	2	3740	Mountain whitefish	207	86	Scales	0			
	0302	2	3741	Mountain whitefish	209	96	Scales	0			
	0302	2	3742	Mountain whitefish	268	206	Scales	0	PIT		:000000085518
	0302	2	3743	Mountain whitefish	277	240	Scales	0	PIT		:000000080741
	0302	2	3744	Mountain whitefish	301	290	Scales	2	PIT		:000000244549
	0302	2	3745	Mountain whitefish	256	186	Scales	0	PIT		:000000077644
	0302	2	3746	Mountain whitefish	284	222	Scales	0	PIT		:000000088761
	0302	2	3747	Mountain whitefish	213	102	Scales	0			
	0302	2	3748	Mountain whitefish	348	450	Scales	0	PIT		:000000076818
	0302	2	3749	Mountain whitefish	338	424	Scales	2	PIT		0A00720319
	0302	2	3750	Mountain whitefish	290	268	Scales	2	PIT		:000000242716
	0302	2	3751	Mountain whitefish	264	192	Scales	0	PIT		:000000092831
	0302	2	3752	Mountain whitefish	207	98	Scales	0			
	0302	2	3753	Mountain whitefish	221	108	Scales	0			
	0304	2	3754	Largescale sucker	480	1514	Fin Ray	0			
	0304	2	3755	Longnose sucker	422	946		0			
	0304	2	3756	Longnose sucker	375	718		0			
	0304	2	3757	Largescale sucker	457	1072	Fin Ray	0			
	0304	2	3758	Arctic grayling	270	244	Scales	2	0	PIT	:000000082057
	0304	2	3759	Arctic grayling	265	252	Scales	2	0	PIT	:000000247770
	0304	2	3760	Mountain whitefish	270	264	Scales	0	PIT		:000000110506
	0304	2	3761	Mountain whitefish	333	350	Scales	2	FLOY		12456 WHITE
	0304	2	3762	Mountain whitefish	274	222	Scales	2	PIT		:000000239001
	0304	2	3763	Mountain whitefish	368	466	Scales	2	FLOY		3978 YELLOW
	0304	2	3764	Mountain whitefish	458	824	Scales	2	FLOY		3003 YELLOW
	0304	2	3765	Mountain whitefish	386	608	Scales	0	PIT		:000000083875
	0304	2	3766	Mountain whitefish	424	816	Scales	0	PIT		:000000084426
	0304	2	3767	Mountain whitefish	316	340	Scales	2	PIT		:000000241034
	0304	2	3768	Mountain whitefish	342	382	Scales	2	FLOY		5962 YELLOW
	0304	2	3769	Mountain whitefish	325	356	Scales	6	2	PIT	0A00743506
	0304	2	3770	Mountain whitefish	358	504	Scales	0	PIT		:000000076543
	0304	2	3771	Mountain whitefish	242	178	Scales	0			
	0304	2	3772	Mountain whitefish	311	346	Scales	0	PIT		:000000087296
	0304	2	3773	Mountain whitefish	293	262	Scales	0	PIT		:000000110218
	0304	2	3774	Mountain whitefish	331	376	Scales	2	PIT		:000000243657
	0304	2	3775	Mountain whitefish	207	106	Scales	0			
	0304	2	3776	Mountain whitefish	250	170	Scales	0	PIT		:000000076974
	0304	2	3777	Mountain whitefish	213	94	Scales	2	0		
	0304	2	3778	Mountain whitefish	248	180	Scales	0			
	0304	2	3779	Mountain whitefish	208	96	Scales	0			
	0304	2	3780	Mountain whitefish	218	118	Scales	0			
	0304	2	3781	Mountain whitefish	247	168	Scales	0			
	0304	2	3782	Mountain whitefish	157	42	Scales	0			
	0304	2	3783	Mountain whitefish	191	76	Scales	0			
	0304	2	3784	Mountain whitefish	307	324	Scales	0	PIT		:000000090832
	0304	2	3785	Mountain whitefish	285	302	Scales	0	PIT		:000000077680
	0304	2	3786	Mountain whitefish	362	462	Scales	2	PIT		:000000239597
	0304	2	3787	Longnose sucker	408	920		0			
	0304	2	3788	Mountain whitefish	378	570	Scales	0	PIT		:000000091676

Appendix C Table C1. Biological characteristics data for sampled fish, 2008 Peace River Fish Community Indexing Program.

Area and Site Label	Session	FishID	Common Name	Fork Length (mm)	Weight (gm)	Age Structure	Age	Capture Code	Tag		
									Type	Number	Colour
3											
0304	2	3789	Mountain whitefish	236	150	Scales		0			
0304	2	3790	Mountain whitefish	358	436	Scales		0	PIT		:000000089768
0304	2	3791	Mountain whitefish	301	288	Scales		0	PIT		:000000077228
0304	2	3792	Mountain whitefish	297	280	Scales		0	PIT		:000000088265
0304	2	3793	Mountain whitefish	317	352	Scales		0	PIT		:000000083673
0304	2	3794	Mountain whitefish	311	308	Scales	4	2	PIT		:000000243227
0304	2	3795	Mountain whitefish	337	386	Scales		2	PIT		:000000247062
0304	2	3796	Mountain whitefish	298	260	Scales		0	PIT		:000000085961
0304	2	3797	Mountain whitefish	293	252	Scales		0	PIT		:000000083734
0304	2	3798	Mountain whitefish	206	88	Scales		0			
0304	2	3799	Mountain whitefish	246	148	Scales		0			
0304	2	3800	Mountain whitefish	238	162	Scales		0			
0304	2	3801	Mountain whitefish	225	122	Scales		0			
0304	2	3802	Mountain whitefish	203	94	Scales		0			
0304	2	3803	Mountain whitefish	374	496	Scales		0	PIT		:000000084143
0304	2	3804	Mountain whitefish	323	330	Scales		2	PIT		:000000245949
0304	2	3805	Mountain whitefish	289	254	Scales		0	PIT		:000000110477
0304	2	3806	Mountain whitefish	317	342	Scales		2	PIT		:000000244325
0304	2	3807	Mountain whitefish	209	98	Scales		0			
0304	2	3808	Mountain whitefish	202	90	Scales		0			
0304	2	3809	Mountain whitefish	135	26	Scales		0			
0304	2	3810	Mountain whitefish	302	284	Scales		0	PIT		:000000085484
0304	2	3811	Mountain whitefish	308	310	Scales		2	FLOY		5964 YELLOW
0304	2	3812	Mountain whitefish	292	364	Scales		0	PIT		:000000084616
0304	2	3813	Mountain whitefish	273	226	Scales		0	PIT		:000000078785
0304	2	3814	Mountain whitefish	252	214	Scales		0	PIT		:000000084614
0304	2	3815	Mountain whitefish	272	186	Scales		2	PIT		:000000245634
0304	2	3816	Mountain whitefish	253	172	Scales		0	PIT		:000000089937
0304	2	3817	Mountain whitefish	235	148	Scales		0			
0304	2	3818	Mountain whitefish	337	394	Scales		0	PIT		:000000084481
0304	2	3819	Mountain whitefish	343	434	Scales		2	PIT		:000000246819
0304	2	3820	Mountain whitefish	198	92	Scales		0			
0304	2	3821	Mountain whitefish	198	82	Scales		0			
0304	2	3822	Mountain whitefish	303	374	Scales		0	PIT		:000000084492
0304	2	3823	Mountain whitefish	204	90	Scales		0			
0304	2	3824	Mountain whitefish	219	118	Scales		0			
0304	2	3825	Mountain whitefish	305	378	Scales		0	PIT		:000000077935
0305	2	3826	Longnose sucker	396				0			
0305	2	3827	Largescale sucker	263				0			
0305	2	3828	Largescale sucker	463				0			
0305	2	3829	Longnose sucker	402				0			
0305	2	3830	Longnose sucker	323				0			
0305	2	3831	Longnose sucker	287				0			
0305	2	3832	Largescale sucker	503				0			
0305	2	3833	Longnose sucker	307				0			
0305	2	3834	Longnose sucker	343				0			
0305	2	3835	Longnose sucker	311				0			
0305	2	3836	Largescale sucker	482				0			
0305	2	3837	Longnose sucker	386				0			
0305	2	3838	Largescale sucker	323				0			
0305	2	3839	Longnose sucker	402				0			
0305	2	3840	Longnose sucker	278				0			
0305	2	3841	Longnose sucker	398				0			
0305	2	3842	Longnose sucker	399				0			
0305	2	3843	Longnose sucker	372				0			
0305	2	3844	Longnose sucker	314				0			
0305	2	3845	Longnose sucker	263				0			
0305	2	3846	Northern pikeminnow	439	900			0			
0305	2	3847	Mountain whitefish	453	834	Scales		2	FLOY		3003 YELLOW
0305	2	3848	Longnose sucker	407	958			0			
0305	2	3849	Mountain whitefish	351	452	Scales		0	PIT		:000000089338
0305	2	3850	Mountain whitefish	356	478	Scales		0	PIT		:000000073126
0305	2	3851	Mountain whitefish	355	424	Scales		0	PIT		:000000085885
0305	2	3852	Mountain whitefish	358	524	Scales		0	PIT		:000000083493

Appendix C Table C1. Biological characteristics data for sampled fish, 2008 Peace River Fish
 Community Indexing Program.

Area and Site Label	Session	FishID	Common Name	Fork Length (mm)	Weight (gm)	Age Structure	Age	Capture Code	Type	Tag Number	Colour	
3												
	0305	2	3853	Mountain whitefish	302	272	Scales		2	PIT	:000000084492	
	0305	2	3854	Mountain whitefish	279	220	Scales	4	0	PIT	:000000089630	
	0305	2	3855	Mountain whitefish	283	278	Scales		0	PIT	:000000084714	
	0305	2	3856	Mountain whitefish	351	490	Scales		0	PIT	:000000087848	
	0305	2	3857	Mountain whitefish	256	156	Scales		0	PIT	:000000087724	
	0305	2	3858	Bull trout	661	3490	Fin Ray		0	PIT	:000000083823	
	0305	2	3859	Longnose sucker	286	328			0			
	0305	2	3860	Mountain whitefish	372	580	Scales		2	FLOY	8908	YELLOW
	0305	2	3861	Mountain whitefish	409	732	Scales		0	PIT	:000000091461	
	0305	2	3862	Mountain whitefish	362	484	Scales		0	PIT	:000000082459	
	0305	2	3863	Mountain whitefish	419	760	Scales		2	FLOY	5917	YELLOW
	0305	2	3864	Mountain whitefish	407	660	Scales		2	PIT	:000000247672	
	0305	2	3865	Mountain whitefish	333	430	Scales		0	PIT	:000000080377	
	0305	2	3866	Mountain whitefish	399	648	Scales		0	PIT	:000000079038	
	0305	2	3867	Bull trout	445	896	Fin Ray	4	0	PIT	:000000076830	
	0305	2	3868	Mountain whitefish	272	260	Scales		0	PIT	:000000077224	
	0305	2	3869	Mountain whitefish	307	322	Scales		2	FLOY	12539	WHITE
	0305	2	3870	Mountain whitefish	327	384	Scales	6	0	PIT	:000000087821	
	0305	2	3871	Mountain whitefish	357	468	Scales		0	PIT	:000000092301	
	0305	2	3872	Mountain whitefish	359	508	Scales		2	PIT	:000000076543	
	0305	2	3873	Mountain whitefish	260	192	Scales		0	PIT	:000000086204	
	0305	2	3874	Mountain whitefish	211	102	Scales		0			
	0305	2	3875	Mountain whitefish	358	486	Scales		0	PIT	:000000110347	
	0305	2	3876	Mountain whitefish	274	226	Scales		0	PIT	:000000087447	
	0305	2	3877	Mountain whitefish	198	80	Scales	2	0			
	0305	2	3878	Mountain whitefish	373	496	Scales		0	PIT	:000000077799	
	0305	2	3879	Mountain whitefish	287	286	Scales		0	PIT	:000000073114	
	0305	2	3880	Mountain whitefish	272	208	Scales		2	PIT	:000000243933	
	0305	2	3881	Mountain whitefish	300	326	Scales		0	PIT	:000000092056	
	0305	2	3882	Mountain whitefish	204	86	Scales		0			
	0305	2	3883	Mountain whitefish	191	74	Scales		0			
	0305	2	3884	Mountain whitefish	223	116	Scales		0			
	0305	2	3885	Mountain whitefish	181	64	Scales		0			
	0305	2	3886	Longnose sucker	257	216			0			
	0305	2	3887	Mountain whitefish	397	616	Scales		0	PIT	:000000083537	
	0305	2	3888	Mountain whitefish	358	620	Scales	6	0	PIT	:000000248303	
	0305	2	3889	Mountain whitefish	345	424	Scales	6	0	PIT	:000000247684	
	0305	2	3890	Mountain whitefish	300	324	Scales		0	PIT	:000000247638	
	0305	2	3891	Mountain whitefish	345	484	Scales		2	PIT	:000000245148	
	0305	2	3892	Mountain whitefish	292	310	Scales		0	PIT	:000000247691	
	0305	2	3893	Mountain whitefish	350	412	Scales		0	PIT	:000000248228	
	0305	2	3894	Mountain whitefish	286	250	Scales		0	PIT	:000000247622	
	0305	2	3895	Mountain whitefish	323	342	Scales		0	PIT	:000000248198	
	0305	2	3896	Mountain whitefish	329	302	Scales		0			
	0305	2	3897	Mountain whitefish	244	156	Scales		0			
	0305	2	3898	Mountain whitefish	210	100	Scales		0			
	0305	2	3899	Longnose sucker	289	290			0			
	0305	2	3900	Mountain whitefish	147	36	Scales		0			
	0305	2	3901	Mountain whitefish	350	354	Scales		5			
	0305	2	3902	Mountain whitefish	299	302	Scales	5	2	PIT	:000000240777	
	0305	2	3903	Mountain whitefish	244	200	Scales		0			
	0305	2	3904	Mountain whitefish	263	220	Scales		0	PIT	:000000247977	
	0305	2	3905	Mountain whitefish	220	98	Scales		0			
	0305	2	3906	Mountain whitefish	353	436	Scales		0	PIT	:000000248056	
	0305	2	3907	Mountain whitefish	189	70	Scales		0			
	0305	2	3908	Mountain whitefish	254	168	Scales		2	PIT	:000000247016	
	0306	2	3909	Longnose sucker	412	934			0			
	0306	2	3910	Longnose sucker	345	580			0			
	0306	2	3911	Longnose sucker	405	822			0			
	0306	2	3912	Longnose sucker	384	734			0			
	0306	2	3913	Longnose sucker	343	488			0			
	0306	2	3914	Longnose sucker	336	526			0			
	0306	2	3915	Longnose sucker	455	1248			0			
	0306	2	3916	Longnose sucker	392	756			0			

Appendix C Table C1. Biological characteristics data for sampled fish, 2008 Peace River Fish Community Indexing Program.

Area and Site Label	Session	FishID	Common Name	Fork Length (mm)	Weight (gm)	Age Structure	Age	Capture Code	Tag Type	Tag Number	Colour
3											
0306	2	3917	Longnose sucker	396	886			0			
0306	2	3918	Longnose sucker	354	642			0			
0306	2	3919	Longnose sucker	385	834			0			
0306	2	3920	Longnose sucker	399	732			0			
0306	2	3921	Longnose sucker	271	244			0			
0306	2	3922	Longnose sucker	392	742			0			
0306	2	3923	Longnose sucker	396	844			0			
0306	2	3924	Longnose sucker	355	644			0			
0306	2	3925	Longnose sucker	406	942			0			
0306	2	3926	Longnose sucker	250	188			0			
0306	2	3927	Longnose sucker	236	186			0			
0306	2	3928	Longnose sucker	285	322			0			
0306	2	3929	Longnose sucker	346	606			0			
0306	2	3930	Longnose sucker	314	418			0			
0306	2	3931	Longnose sucker	322	412			0			
0306	2	3932	Bull trout	370	514		5	2	PIT	000000246263	
0306	2	3933	Mountain whitefish	438	854	Scales		5	PIT	000000247581	
0306	2	3934	Mountain whitefish	390	602	Scales		0	PIT	000000248224	
0306	2	3935	Mountain whitefish	373	538	Scales		0	PIT	000000247999	
0306	2	3936	Mountain whitefish	355	544	Scales	7	0	PIT	000000248038	
0306	2	3937	Mountain whitefish	400	634	Scales		0	PIT	000000247903	
0306	2	3938	Mountain whitefish	327	384	Scales	6	0	PIT	000000247591	
0306	2	3939	Mountain whitefish	328	382	Scales		0	PIT	000000248269	
0306	2	3940	Mountain whitefish	435	1028	Scales		2	FLOY	10489	YELLOW
0306	2	3941	Mountain whitefish	348	390	Scales		2	FLOY	12517	WHITE
0306	2	3942	Mountain whitefish	252	168	Scales		0	PIT	000000247536	
0306	2	3943	Mountain whitefish	196	80	Scales	2	0			
0306	2	3944	Kokanee	125	16			0			
0306	2	3945	Mountain whitefish	309	294	Scales		0	PIT	000000247821	
0306	2	3946	Longnose sucker	201	98			0			
0306	2	3947	Mountain whitefish	380	556	Scales		2	PIT	4D00035559	
0306	2	3948	Mountain whitefish	295		Scales		0	PIT	000000248302	
0306	2	3949	Mountain whitefish	368	478	Scales		2	PIT	0A00706757	
0306	2	3950	Mountain whitefish	195	74	Scales		0			
0314	2	3951	Longnose sucker	455	1148			2	FLOY	330	YELLOW
0314	2	3952	Longnose sucker	388	742			0			
0314	2	3953	Longnose sucker	400	912			0			
0314	2	3954	Longnose sucker	410	924			0			
0314	2	3955	Longnose sucker	340	424			5			
0314	2	3956	Longnose sucker	388	780			0			
0314	2	3957	Bull trout	359	468	Fin Ray	3	0	PIT	000000247878	
0314	2	3958	Arctic grayling	323	498	Scales	3	2	PIT	000000239604	
0314	2	3959	Rainbow trout	194	88	Fin Ray		0			
0314	2	3960	Rainbow trout	377	562	Fin Ray		0			
0314	2	3961	Longnose sucker	445	1208			0			
0314	2	3962	Mountain whitefish	323	344	Scales		2	PIT	000000245196	
0314	2	3963	Mountain whitefish	269	252	Scales		0	PIT	000000247825	
0314	2	3964	Mountain whitefish	341	400	Scales		2	PIT	000000237783	
0314	2	3965	Mountain whitefish	329	358	Scales		0	PIT	000000247693	
0314	2	3966	Mountain whitefish	334	388	Scales		0	PIT	000000247383	
0314	2	3967	Mountain whitefish	290	288	Scales		0	PIT	000000248048	
0314	2	3968	Mountain whitefish	345	450	Scales		0	PIT	000000247329	
0314	2	3969	Mountain whitefish	272	242	Scales		0	PIT	000000084428	
0314	2	3970	Mountain whitefish	204	104	Scales		0			
0314	2	3971	Mountain whitefish	212	102	Scales		0			
0314	2	3972	Mountain whitefish	329	420	Scales		0	PIT	000000084943	
0314	2	3973	Arctic grayling	274	282	Scales	2	0	PIT	000000079076	
0314	2	3974	Mountain whitefish	352	502	Scales	7	0	PIT	000000082547	
0314	2	3975	Mountain whitefish	407	722	Scales		0	PIT	000000091796	
0314	2	3976	Mountain whitefish	278	226	Scales		0	PIT	000000090476	
0314	2	3977	Mountain whitefish	290	288	Scales		0	PIT	000000090347	
0314	2	3978	Mountain whitefish	314	314	Scales		0	PIT	000000092144	
0314	2	3979	Mountain whitefish	282	236	Scales		0	PIT	000000085281	
0314	2	3980	Mountain whitefish	319	326	Scales		0	PIT	000000085009	

Appendix C Table C1. Biological characteristics data for sampled fish, 2008 Peace River Fish Community Indexing Program.

Area and Site Label	Session	FishID	Common Name	Fork Length (mm)	Weight (gm)	Age Structure	Age	Capture Code	Tag				
									Type	Number	Colour		
3	0314	2	3981	Mountain whitefish	268	220	Scales		0	PIT	000000084334		
	0314	2	3982	Mountain whitefish	311	322	Scales		0	PIT	000000092381		
	0314	2	3983	Mountain whitefish	209	96	Scales		0				
	0314	2	3984	Mountain whitefish	157	42	Scales		0				
	0314	2	3985	Mountain whitefish	318	314	Scales		0	PIT	000000076685		
	0314	2	3986	Mountain whitefish	218	120	Scales		0				
	0314	2	3987	Mountain whitefish	319	362	Scales		0	PIT	000000087571		
	0314	2	3988	Mountain whitefish	318	390	Scales		2	PIT	000000241263		
	0314	2	3989	Mountain whitefish	331	368	Scales		2	PIT	0A00735927		
	0314	2	3990	Mountain whitefish	293	288	Scales		0	PIT	000000090864		
	0314	2	3991	Mountain whitefish	203	90	Scales		0				
	0314	2	3992	Mountain whitefish	199	84	Scales		0				
	0314	2	3993	Mountain whitefish	358	462	Scales		0				
	0314	2	3994	Mountain whitefish	226	126	Scales		0				
	0314	2	3995	Mountain whitefish	368	528	Scales		5	PIT	000000077666		
	0314	2	3996	Mountain whitefish	266	240	Scales		0	PIT	000000091934		
	0314	2	3997	Mountain whitefish	223	124	Scales	2	0				
	0314	2	3998	Mountain whitefish	145	30	Scales		0				
	0314	2	3999	Mountain whitefish	241	170	Scales		0				
	0314	2	4000	Mountain whitefish	385	450	Scales		2	PIT	000000242994		
	0314	2	4001	Mountain whitefish	344	418	Scales		0	PIT	000000079167		
	0314	2	4002	Mountain whitefish	254	192	Scales	3	0	PIT	000000082840		
	0314	2	4003	Mountain whitefish	302	300	Scales		0	PIT	000000082059		
	0314	2	4004	Mountain whitefish	200	90	Scales		0				
	0314	2	4005	Mountain whitefish	207		Scales		0				
	0314	2	4006	Mountain whitefish	334	434	Scales		2	PIT	000000080377		
	0314	2	4007	Mountain whitefish	213	110	Scales		0				
	0314	2	4008	Mountain whitefish	360	454	Scales		0	PIT	000000091909		
	0314	2	4009	Mountain whitefish	281	262	Scales		0	PIT	000000090301		
	0314	2	4010	Mountain whitefish	213	104	Scales		0				
	0314	2	4011	Rainbow trout	227	124	Fin Ray		0				
	0314	2	4012	Mountain whitefish	368	512	Scales		2	FLOY	14690	WHITE	
	0314	2	4013	Mountain whitefish	287	280	Scales		2	PIT	000000239414		
	0314	2	4014	Mountain whitefish	230	126	Scales		0				
	0314	2	4015	Mountain whitefish	282	236	Scales		0	PIT	000000077966		
	0314	2	4016	Mountain whitefish	255	186	Scales		0	PIT	000000079718		
	0315	2	4017	Largescale sucker	498	1510			0				
	0315	2	4018	Longnose sucker	442	1044			0				
	0315	2	4019	Largescale sucker	447	1206			0				
	0315	2	4020	Longnose sucker	417	966			0				
	0315	2	4021	Longnose sucker	387	806			0				
	0315	2	4022	Longnose sucker	428	1210			0				
	0315	2	4023	Longnose sucker	428	1022			0				
	0315	2	4024	Mountain whitefish	358	512	Scales		2	FLOY	11356	WHITE	
	0315	2	4025	Mountain whitefish	423	854	Scales		2	PIT	000000247151		
	0315	2	4026	Mountain whitefish	326	376	Scales		0	PIT	000000085724		
	0315	2	4027	Mountain whitefish	366	534	Scales		2	FLOY	3009	YELLOW	
	0315	2	4028	Mountain whitefish	364	430	Scales		0	PIT	000000247664		
	0315	2	4029	Mountain whitefish	321	312	Scales		2	FLOY	7302	YELLOW	
	0315	2	4030	Mountain whitefish	326	364	Scales	5	0	PIT	000000247528		
	0315	2	4031	Mountain whitefish	394	644	Scales		0	PIT	000000247961		
	0315	2	4032	Mountain whitefish	258	220	Scales		0	PIT	000000247912		
	0315	2	4033	Mountain whitefish	324	424	Scales		0	PIT	000000248096		
	0315	2	4034	Mountain whitefish	305	358	Scales		0	PIT	000000248129		
	0315	2	4035	Mountain whitefish	297	288	Scales		0	PIT	000000247391		
	0315	2	4036	Mountain whitefish	317	348	Scales		0	PIT	000000247392		
	0315	2	4037	Mountain whitefish	327	414	Scales		2	PIT	0A00720003		
	0315	2	4038	Mountain whitefish	330	444	Scales		2	PIT	000000242602		
	0315	2	4039	Mountain whitefish	314	394	Scales		0	PIT	000000248206		
	0315	2	4040	Mountain whitefish	324	468	Scales		0				
	0315	2	4041	Longnose sucker	431	1048			0				
	0315	2	4042	Mountain whitefish	294	328	Scales		2	PIT	000000242912		
	0315	2	4043	Mountain whitefish	318	334	Scales		0	PIT	000000246497		
	0315	2	4044	Mountain whitefish	291	304	Scales		0	PIT	000000248149		

Appendix C Table C1. Biological characteristics data for sampled fish, 2008 Peace River Fish Community Indexing Program.

Area and Site Label	Session	FishID	Common Name	Fork Length (mm)	Weight (gm)	Age Structure	Age	Capture Code	Tag			
									Type	Number	Colour	
3												
	0315	2	4045	Mountain whitefish	265	224	Scales	0	PIT		000000247674	
	0315	2	4046	Largescale sucker	396	790		0				
	0315	2	4047	Longnose sucker	374	748		0				
	0315	2	4048	Longnose sucker	362	644		0				
	0315	2	4049	Bull trout	533	1496	Fin Ray	5	0	PIT	000000247603	
	0315	2	4050	Mountain whitefish	279	286	Scales	4	0	PIT	000000248105	
	0315	2	4051	Mountain whitefish	311	342	Scales	0	0	PIT	000000247719	
	0315	2	4052	Mountain whitefish	323	348	Scales	2	2	FLOY	14710	WHITE
	0315	2	4053	Mountain whitefish	314	328	Scales	0	0	PIT	000000247524	
	0315	2	4054	Mountain whitefish	208	114	Scales	0	0			
	0315	2	4055	Rainbow trout	312	390	Fin Ray	0	0			
	0315	2	4056	Mountain whitefish	311	338	Scales	2	2	PIT	000000242871	
	0315	2	4057	Mountain whitefish	284	278	Scales	2	2	PIT	000000248093	
	0315	2	4058	Mountain whitefish	293	316	Scales	2	2	PIT	000000243040	
	0315	2	4059	Mountain whitefish	248	186	Scales	0	0			
	0315	2	4060	Mountain whitefish	198	78	Scales	0	0			
	0315	2	4061	Mountain whitefish	220	108	Scales	0	0			
	0315	2	4062	Mountain whitefish	263	230	Scales	2	2	PIT	000000248307	
	0315	2	4063	Mountain whitefish	281	226	Scales	0	0	PIT	000000248064	
	0315	2	4064	Mountain whitefish	214	106	Scales	0	0			
	0315	2	4065	Mountain whitefish	300	324	Scales	2	2	PIT	000000241888	
	0315	2	4066	Mountain whitefish	271	234	Scales	2	2	PIT	000000245461	
	0315	2	4067	Mountain whitefish	206	104	Scales	0	0			
	0315	2	4068	Mountain whitefish	270	254	Scales	0	0	PIT	000000247695	
	0315	2	4069	Mountain whitefish	274	264	Scales	4	0	PIT	000000248298	
	0315	2	4070	Mountain whitefish	204	98	Scales	0	0			
	0315	2	4071	Mountain whitefish	290	284	Scales	0	0	PIT	000000247592	
	0315	2	4072	Mountain whitefish	288	260	Scales	0	0	PIT	000000247859	
	0315	2	4073	Mountain whitefish	312	342	Scales	0	0	PIT	000000247882	
	0315	2	4074	Mountain whitefish	293	270	Scales	4	2	PIT	000000238414	
	0315	2	4075	Mountain whitefish	292	274	Scales	0	0	PIT	000000247748	
	0315	2	4076	Mountain whitefish	212	98	Scales	0	0			
	0315	2	4077	Mountain whitefish	219	88	Scales	0	0			
	0315	2	4078	Mountain whitefish	149	36	Scales	0	0			
	0315	2	4079	Mountain whitefish	320	342	Scales	2	2	FLOY	16561	WHITE
	0315	2	4080	Mountain whitefish	277	226	Scales	0	0	PIT	000000247868	
	0315	2	4081	Mountain whitefish	291	304	Scales	0	0	PIT	000000247688	
	0315	2	4082	Mountain whitefish	247	176	Scales	0	0			
	0315	2	4083	Mountain whitefish	330	340	Scales	0	0	PIT	000000247979	
	0315	2	4084	Mountain whitefish	220	124	Scales	0	0			
	0315	2	4085	Mountain whitefish	320	376	Scales	0	0	PIT	000000248051	
	0315	2	4086	Mountain whitefish	178	74	Scales	2	0			
	0315	2	4087	Mountain whitefish	284	270	Scales	0	0	PIT	000000248199	
	0315	2	4088	Mountain whitefish	246	168	Scales	0	0			
	0315	2	4089	Mountain whitefish	379	546	Scales	0	0	PIT	000000247655	
	0315	2	4090	Mountain whitefish	260	220	Scales	0	0	PIT	000000248045	
	0315	2	4091	Mountain whitefish	211	98	Scales	0	0			
	0315	2	4092	Rainbow trout	146	40		0	0			
	0315	2	4093	Mountain whitefish	357	424	Scales	2	2	PIT	4D00032865	
	0315	2	4094	Longnose sucker	362	688		0	0			
	0315	2	4095	Mountain whitefish	330	392	Scales	2	2	PIT	000000237740	
	0315	2	4096	Mountain whitefish	291	272	Scales	0	0	PIT	000000247549	
	0315	2	4097	Mountain whitefish	288	302	Scales	0	0	PIT	000000247585	
	0315	2	4098	Mountain whitefish	346	494	Scales	6	0	PIT	000000248175	
	0315	2	4099	Mountain whitefish	281	246	Scales	0	0	PIT	000000247552	
	0315	2	4100	Mountain whitefish	307	306	Scales	2	2	PIT	0A00736017	
	0315	2	4101	Mountain whitefish	276	230	Scales	0	0	PIT	000000248163	
	0315	2	4102	Mountain whitefish	320	358	Scales	0	0	PIT	000000247729	
	0315	2	4103	Mountain whitefish	324	356	Scales	0	0	PIT	000000248002	
	0315	2	4104	Mountain whitefish	270	236	Scales	0	0	PIT	000000248003	
	0315	2	4105	Mountain whitefish	205	98	Scales	0	0			
	0315	2	4106	Mountain whitefish	195	78	Scales	0	0			
	0315	2	4107	Mountain whitefish	246	162	Scales	0	0			
	0315	2	4108	Mountain whitefish	278	220	Scales	0	0	PIT	000000247982	

Appendix C Table C1. Biological characteristics data for sampled fish, 2008 Peace River Fish
Community Indexing Program.

Area and Site Label	Session	FishID	Common Name	Fork Length (mm)	Weight (gm)	Age Structure	Age	Capture Code	Tag		
									Type	Number	Colour
3											
	0315	2	4109	Mountain whitefish	203	94	Scales	0			
	0315	2	4110	Mountain whitefish	320	372	Scales	0	PIT	000000248172	
	0309	2	4111	Mountain whitefish	298	278	Scales	2	PIT	000000246716	
	0309	2	4112	Mountain whitefish	321	304	Scales	2	FLOY		9123 YELLOW
	0309	2	4113	Arctic grayling	248	190	Scales	2	0		
	0309	2	4114	Arctic grayling	203	100	Scales	1	0		
	0309	2	4115	Mountain whitefish	294	300	Scales	0	PIT	000000245399	
	0309	2	4116	Mountain whitefish	258	212	Scales	0	PIT	000000246737	
	0309	2	4117	Mountain whitefish	200	94	Scales	0			
	0309	2	4118	Mountain whitefish	208	92	Scales	0			
	0309	2	4119	Mountain whitefish	203	84	Scales	0			
	0309	2	4120	Mountain whitefish	187	70	Scales	0			
	0309	2	4121	Mountain whitefish	153	38	Scales	0			
	0309	2	4122	White sucker	389	846		0			
	0309	2	4123	Mountain whitefish	346	422	Scales	2	FLOY		4477 YELLOW
	0309	2	4124	Arctic grayling	261	230	Scales	2	PIT	000000245684	
	0309	2	4125	Mountain whitefish	353	440	Scales	2	PIT	0A00717527	
	0309	2	4126	Mountain whitefish	263	218	Scales	0	PIT	000000245972	
	0309	2	4127	Mountain whitefish	193	74	Scales	2	0		
	0309	2	4128	Mountain whitefish	256	186	Scales	3	0	PIT	000000246320
	0309	2	4129	Mountain whitefish	294	250	Scales	0	PIT	000000247038	
	0309	2	4130	Mountain whitefish	198	74	Scales	2	0		
	0309	2	4131	Mountain whitefish	192	64	Scales	2	0		
	0309	2	4132	Mountain whitefish	210	104	Scales	0			
	0309	2	4133	Bull trout	407	606	Fin Ray	4	0	PIT	000000245731
	0309	2	4134	Bull trout	621	3960		8	2	FLOY	12535 WHITE
	0311	2	4135	Arctic grayling	283	244	Scales	2	0	PIT	000000243807
	0311	2	4136	Mountain whitefish	314	304	Scales	2	PIT	0A00736358	
	0311	2	4137	Mountain whitefish	336	388	Scales	2	PIT	000000247738	
	0311	2	4138	Mountain whitefish	260	180	Scales	0	PIT	000000247146	
	0311	2	4139	Mountain whitefish	289	246	Scales	0	PIT	000000246698	
	0311	2	4140	Mountain whitefish	274	250	Scales	0	PIT	000000247049	
	0311	2	4141	Mountain whitefish	177	56	Scales	0			
	0311	2	4142	Mountain whitefish	207	96	Scales	0			
	0311	2	4143	Longnose sucker	370	606		0			
	0311	2	4144	Longnose sucker	360	624		0			
	0311	2	4145	Mountain whitefish	317	338	Scales	0	PIT	000000246817	
	0311	2	4146	Mountain whitefish	310	368	Scales	0	PIT	000000245890	
	0311	2	4147	Mountain whitefish	240	172	Scales	0			
	0311	2	4148	Longnose sucker	290	274		0			
	0311	2	4149	Mountain whitefish	200	84	Scales	0			
	0311	2	4150	Bull trout	349	428	Fin Ray	4	0	PIT	000000245914
	0311	2	4151	Bull trout	333	408		4	2	PIT	000000246319
	0311	2	4152	Mountain whitefish	203	90	Scales	0			
	0311	2	4153	Longnose sucker	300	346		0			
	0311	2	4154	Northern pikeminnow	400	692		0			
	0311	2	4155	Mountain whitefish	253	176	Scales	0	PIT	000000245436	
	0311	2	4156	Longnose sucker	290	318		0			
	0311	2	4157	Mountain whitefish	330	404	Scales	2	PIT	0A00712400	
	0311	2	4158	Mountain whitefish	292	274	Scales	0	PIT	000000246535	
	0311	2	4159	Longnose sucker	286	288		0			
	0311	2	4160	Mountain whitefish	317	308	Scales	2	PIT	0A00727729	
	0311	2	4161	Mountain whitefish	282	250	Scales	0	PIT	000000245602	
	0311	2	4162	Mountain whitefish	195	68	Scales	2	0		
	0311	2	4163	Mountain whitefish	284	248	Scales	2	PIT	000000245839	
	0311	2	4164	Longnose sucker	290	322		0			
	0311	2	4165	Longnose sucker	320	412		0			
	0311	2	4166	Mountain whitefish	382	586	Scales	0	PIT	000000245786	
	0311	2	4167	Mountain whitefish	207	84	Scales	0			
	0311	2	4168	Mountain whitefish	378	444	Scales	2	FLOY		4462 YELLOW
	0311	2	4169	Mountain whitefish	233	162	Scales	3	0		
	0311	2	4170	Longnose sucker	343	502		0			
	0311	2	4171	Mountain whitefish	291	240	Scales	0	PIT	000000246670	
	0311	2	4172	Mountain whitefish	237	148	Scales	0			

Appendix C Table C1. Biological characteristics data for sampled fish, 2008 Peace River Fish Community Indexing Program.

Area and Site Label	Session	FishID	Common Name	Fork Length (mm)	Weight (gm)	Age Structure	Age	Capture Code	Tag		
									Type	Number	Colour
3		0311	Mountain whitefish	184	62	Scales		0			
		0311	Mountain whitefish	200	90	Scales		0			
		0311	Mountain whitefish	84	4	Scales		0			
		0311	Bull trout	335	424	Fin Ray	3	0	PIT	000000245676	
		0311	Bull trout	355	474	Fin Ray	4	0	PIT	000000243367	
		0311	Mountain whitefish	337	400	Scales		0	PIT	000000247124	
		0311	Mountain whitefish	345	430	Scales		0	PIT	000000246188	
		0311	Mountain whitefish	349	406	Scales		0	PIT	000000246881	
		0311	Mountain whitefish	252	184	Scales		0	PIT	000000245410	
		0311	Mountain whitefish	266	186	Scales		0	PIT	000000245771	
		0310	Largescale sucker	543	1330			0			
		0310	Longnose sucker	452	1940			0			
		0310	Longnose sucker	329	454			0			
		0310	Longnose sucker	407	852			0			
		0310	Longnose sucker	408	868			0			
		0310	Largescale sucker	520	1830			0			
		0310	Longnose sucker	317	430			0			
		0310	Largescale sucker	495	1766			0			
		0310	Mountain whitefish	310	338	Scales		0	PIT	000000246467	
		0310	Longnose sucker	378	662			0			
		0310	Mountain whitefish	363	530	Scales		0	PIT	000000246438	
		0310	Arctic grayling	175	70	Scales	1	0			
		0310	Mountain whitefish	308	332	Scales		0	PIT	000000247294	
		0310	Mountain whitefish	337	442	Scales		2	PIT	000000245081	
		0310	Mountain whitefish	338	454	Scales		2	FLOY	9086 YELLOW	
		0310	Mountain whitefish	355	506	Scales		2	PIT	0A00716769	
		0310	Mountain whitefish	336	370	Scales		2	PIT	0A00735919	
		0310	Mountain whitefish	414	708	Scales		0	PIT	000000245897	
		0310	Mountain whitefish	398	648	Scales		0	PIT	000000246443	
		0310	Largescale sucker	299	348			0			
		0310	Mountain whitefish	308	310	Scales		2	PIT	000000245941	
		0310	Mountain whitefish	370	522	Scales		2	PIT	4D00033126	
		0310	Mountain whitefish	340	424	Scales		2	PIT	000000244553	
		0310	Mountain whitefish	367	498	Scales		2	PIT	000000244814	
		0310	Mountain whitefish	335	344	Scales	5	0	PIT	000000247024	
		0310	Mountain whitefish	386	668	Scales		2	FLOY	10549 YELLOW	
		0310	Mountain whitefish	306	332	Scales		2	FLOY	16167 WHITE	
		0310	Mountain whitefish	343	450	Scales		0	PIT	000000247071	
		0310	Mountain whitefish	332	374	Scales		2	FLOY	3103 YELLOW	
		0310	Mountain whitefish	283	264	Scales		0	PIT	000000245976	
		0310	Mountain whitefish	199	92	Scales		0			
		0310	Mountain whitefish	185	60	Scales		0			
		0310	Mountain whitefish	159	48	Scales		0			
		0310	Mountain whitefish	211	104	Scales		0			
		0310	Mountain whitefish	216	100	Scales	3	0			
		0310	Mountain whitefish	437	873	Scales		2	FLOY	14815 WHITE	
		0310	Mountain whitefish	343	446	Scales		2	FLOY	4521 YELLOW	
		0310	Mountain whitefish	271	220	Scales		0	PIT	000000246086	
		0310	Mountain whitefish	289	276	Scales		0	PIT	000000246712	
		0310	Mountain whitefish	209	100	Scales		0			
		0310	Mountain whitefish	205	88	Scales		0			
		0310	Mountain whitefish	188	64	Scales		0			
		0310	Mountain whitefish	192	70	Scales		0			
		0310	Mountain whitefish	402	762	Scales		0	PIT	000000245555	
		0310	Mountain whitefish	342	444	Scales		0	PIT	000000245601	
		0310	Mountain whitefish	299	372	Scales		0	PIT	000000246770	
		0310	Mountain whitefish	315	320	Scales		2	PIT	0A00711376	
		0310	Arctic grayling	272	250	Scales	2	0	PIT	000000246243	
		0310	Mountain whitefish	334	440	Scales		0	PIT	000000243445	
		0310	Mountain whitefish	307	304	Scales		0	PIT	000000245531	
		0310	Mountain whitefish	195	80	Scales	2	0			
		0310	Mountain whitefish	308	328	Scales		0	PIT	000000243647	
		0310	Mountain whitefish	253	172	Scales		0	PIT	000000245750	
		0310	Mountain whitefish	206	92	Scales		2	0		

Appendix C Table C1. Biological characteristics data for sampled fish, 2008 Peace River Fish Community Indexing Program.

Area and Site Label	Session	FishID	Common Name	Fork Length (mm)	Weight (gm)	Age Structure	Age	Capture Code	Tag		
									Type	Number	Colour
3	0310	2	4237	Mountain whitefish	206	92	Scales				
	0310	2	4238	Mountain whitefish	406	708	Scales	0	PIT	000000246946	
	0310	2	4239	Mountain whitefish	296	292	Scales	0	PIT	000000245506	
	0310	2	4240	Mountain whitefish	310	340	Scales	2	PIT	000000240802	
	0310	2	4241	Mountain whitefish	309	338	Scales	2	PIT	0A00735717	
	0310	2	4242	Mountain whitefish	266	210	Scales	0	PIT	000000246337	
	0310	2	4243	Mountain whitefish	184	60	Scales	0			
	0310	2	4244	Mountain whitefish	197	80	Scales	0			
	0310	2	4245	Mountain whitefish	198	80	Scales	0			
	0310	2	4246	Mountain whitefish	197	74	Scales	0			
	0310	2	4247	Mountain whitefish	208	86	Scales	0			
	0310	2	4248	Mountain whitefish	209	98	Scales	0			
	0310	2	4249	Mountain whitefish	216	102	Scales	0			
	0310	2	4250	Mountain whitefish	196	80	Scales	0			
	0310	2	4251	Mountain whitefish	200	84	Scales	0			
	0310	2	4252	Mountain whitefish	355	484	Scales	2	FLOY	HYDROY10601	YELLOW
	0310	2	4253	Mountain whitefish	327	340	Scales	0	PIT	000000246424	
	0310	2	4254	Mountain whitefish	293	296	Scales	0	PIT	000000245942	
	0310	2	4255	Mountain whitefish	353	450	Scales	2	PIT	0A00717527	
	0310	2	4256	Mountain whitefish	362	448	Scales	0	PIT	000000246432	
	0310	2	4257	Mountain whitefish	208	100	Scales	0			
	0310	2	4258	Mountain whitefish	325	430	Scales	0	PIT	000000246476	
	0310	2	4259	Mountain whitefish	317	332	Scales	0	PIT	000000246372	
	0310	2	4260	Mountain whitefish	312	342	Scales	2	PIT	0A00707631	
	0310	2	4261	Mountain whitefish	292	286	Scales	0	PIT	000000246870	
	0310	2	4262	Mountain whitefish	283	274	Scales	0	PIT	000000245934	
	0310	2	4263	Mountain whitefish	209	92	Scales	0			
	0310	2	4264	Mountain whitefish	190	72	Scales	2	0		
	0310	2	4265	Mountain whitefish	350	492	Scales	6	0	PIT	000000246408
	0310	2	4266	Mountain whitefish	340	416	Scales	2	2	PIT	000000241609
	0310	2	4267	Mountain whitefish	189	72	Scales	2	0		
	0310	2	4268	Mountain whitefish	215	108	Scales	0			
	0310	2	4269	Mountain whitefish	280	238	Scales	0	PIT	000000246348	
	0312	2	4270	Longnose sucker	349	552		0			
	0312	2	4271	Longnose sucker	383	736		0			
	0312	2	4272	Longnose sucker	362	616		0			
	0312	2	4273	Mountain whitefish	371	570	Scales	0	PIT	000000247220	
	0312	2	4274	Mountain whitefish	313	336	Scales	0	PIT	000000247289	
	0312	2	4275	Mountain whitefish	355	458	Scales	0	PIT	000000245325	
	0312	2	4276	Mountain whitefish	310	304	Scales	0	PIT	000000246906	
	0312	2	4277	Largescale sucker	405	890		0			
	0312	2	4278	Northern pikeminnow	285	300		0			
	0312	2	4279	Mountain whitefish	325	342	Scales	0	PIT	000000247195	
	0312	2	4280	Mountain whitefish	323	394	Scales	0	PIT	000000246830	
	0312	2	4281	Mountain whitefish	413	798	Scales	0	PIT	000000246439	
	0312	2	4282	Mountain whitefish	350	470	Scales	0	PIT	000000246558	
	0312	2	4283	Mountain whitefish	354	454	Scales	8	2	PIT	0A00710600
	0312	2	4284	Mountain whitefish	214	106	Scales	0			
	0312	2	4285	Mountain whitefish	348	484	Scales	2	PIT	0A00744567	
	0312	2	4286	Mountain whitefish	405	610	Scales	0	PIT	000000246440	
	0312	2	4287	Mountain whitefish	329	376	Scales	0	PIT	000000246963	
	0312	2	4288	Longnose sucker	404	854		0			
	0312	2	4289	Longnose sucker	330	432		0			
	0312	2	4290	Longnose sucker	273	352		0			
	0312	2	4291	Mountain whitefish	243	162	Scales	0			
	0312	2	4292	Longnose sucker	396	788		0			
	0312	2	4293	Longnose sucker	345	532		0			
	0312	2	4294	Longnose sucker	319	416		0			
	0312	2	4295	Mountain whitefish	343	430	Scales	2	PIT	000000238178	
	0312	2	4296	Mountain whitefish	269	306	Scales	0	PIT	000000246511	
	0312	2	4297	Mountain whitefish	260	192	Scales	0	PIT	000000247104	
	0312	2	4298	Northern pikeminnow	250	204		0			
	0312	2	4299	Mountain whitefish	301	284	Scales	2	PIT	000000243058	
	0312	2	4300	Bull trout	350	464		4	2	PIT	000000245707

Appendix C Table C1. Biological characteristics data for sampled fish, 2008 Peace River Fish Community Indexing Program.

Area and Site Label	Session	FishID	Common Name	Fork Length (mm)	Weight (gm)	Age Structure	Age	Capture Code	Tag					
									Type	Number	Colour			
3	0312	2	4301	Mountain whitefish	355	474	Scales	0	PIT		000000247223			
	0312	2	4302	Mountain whitefish	268	216	Scales	0	PIT		000000247082			
	0312	2	4303	Mountain whitefish	262	202	Scales	0	PIT		000000247264			
	0312	2	4304	Mountain whitefish	322	398	Scales	5	0	PIT		000000246930		
	0312	2	4305	Mountain whitefish	351	476	Scales	0	0	PIT		000000245682		
	0312	2	4306	Mountain whitefish	204	84	Scales	0	0					
	0312	2	4307	Mountain whitefish	340	396	Scales	0	0	PIT		000000246791		
	0312	2	4308	Mountain whitefish	317	328	Scales	2	0	PIT		0A00736142		
	0312	2	4309	Mountain whitefish	333	386	Scales	0	0	PIT		000000246967		
	0312	2	4310	Mountain whitefish	207	84	Scales	0	0					
	0312	2	4311	Mountain whitefish	185	66	Scales	0	0					
	0312	2	4312	Mountain whitefish	181	62	Scales	0	0					
	0312	2	4313	Mountain whitefish	315	328	Scales	0	0	PIT		000000245918		
	0312	2	4314	Mountain whitefish	195	84	Scales	0	0					
	0312	2	4315	Mountain whitefish	304	296	Scales	0	0	PIT		000000246745		
	0312	2	4316	Mountain whitefish	257	194	Scales	0	0	PIT		000000245627		
	0312	2	4317	Mountain whitefish	215	100	Scales	0	0					
	0312	2	4318	Mountain whitefish	285	240	Scales	4	0	0	PIT		000000245821	
	0312	2	4319	Mountain whitefish	196	82	Scales	0	0					
	0312	2	4320	Mountain whitefish	286	238	Scales	2	0	PIT		000000239071		
	0312	2	4321	Mountain whitefish	291	274	Scales	0	0	PIT		000000246213		
	0312	2	4322	Mountain whitefish	301	312	Scales	0	0	PIT		000000245636		
	0312	2	4323	Mountain whitefish	304	306	Scales	0	0	PIT		000000246237		
	0312	2	4324	Mountain whitefish	190	70	Scales	0	0					
	0312	2	4325	Mountain whitefish	292	266	Scales	0	0	PIT		000000247181		
	0312	2	4326	Mountain whitefish	207	98	Scales	0	0					
	0312	2	4327	Mountain whitefish	228	124	Scales	2	0					
	0312	2	4328	Mountain whitefish	187	64	Scales	0	0					
	0312	2	4329	Mountain whitefish	162	46	Scales	1	0					
	0312	2	4330	Mountain whitefish	218	124	Scales	0	0					
	0312	2	4331	Mountain whitefish	284	260	Scales	0	0	PIT		000000247043		
	0307	2	4332	Longnose sucker	334	462		0	0					
	0307	2	4333	Longnose sucker	399	832		0	0					
	0307	2	4334	Northern pikeminnow	474	1392		0	0					
	0307	2	4335	Longnose sucker	389	740		0	0					
	0307	2	4336	Longnose sucker	388	892		0	0					
	0307	2	4337	Longnose sucker	416	872		0	0					
	0307	2	4338	Longnose sucker	340	536		0	0					
	0307	2	4339	Longnose sucker	404	868		0	0					
	0307	2	4340	Longnose sucker	421	986		0	0					
	0307	2	4341	Longnose sucker	316	402		0	0					
	0307	2	4342	Longnose sucker	361	578		0	0					
	0307	2	4343	Longnose sucker	404	908		0	0					
	0307	2	4344	Mountain whitefish	418	758	Scales	0	0	PIT		000000247148		
	0307	2	4345	Mountain whitefish	391	586	Scales	0	0	PIT		000000245777		
	0307	2	4346	Mountain whitefish	342	406	Scales	0	0	PIT		000000247149		
	0307	2	4347	Mountain whitefish	319	356	Scales	5	2	PIT		000000242307		
	0307	2	4348	Longnose sucker	351	576		0	0					
	0307	2	4349	Arctic grayling	277	298	Scales	2	0	0	PIT		000000247293	
	0307	2	4350	Mountain whitefish	303	332	Scales	0	0	PIT		000000246437		
	0307	2	4351	Mountain whitefish	351	456	Scales	2	0	PIT		000000243379		
	0307	2	4352	Mountain whitefish	269	216	Scales	0	0	PIT		000000246522		
	0307	2	4353	Mountain whitefish	271	226	Scales	0	0	PIT		000000247252		
	0307	2	4354	Mountain whitefish	204	88	Scales	0	0					
	0307	2	4355	Longnose sucker	373	738		0	0					
	0307	2	4356	Mountain whitefish	318	348	Scales	2	0	PIT		000000247392		
	0307	2	4357	Mountain whitefish	375	470	Scales	2	0	FLOY		3043	YELLOW	
	0307	2	4358	Mountain whitefish	319	352	Scales	2	0	PIT		0A00744124		
	0307	2	4359	Mountain whitefish	351	416	Scales	2	0	PIT		000000242703		
	0307	2	4360	Mountain whitefish	306	328	Scales	2	0	PIT		000000247496		
	0307	2	4361	Mountain whitefish	326	378	Scales	2	0	FLOY		13767	WHITE	
	0307	2	4362	Mountain whitefish	308	308	Scales	2	0	PIT		000000243704		
	0307	2	4363	Mountain whitefish	187	68	Scales	2	0					
	0307	2	4364	Mountain whitefish	202	94	Scales	0	0					

Appendix C Table C1. Biological characteristics data for sampled fish, 2008 Peace River Fish Community Indexing Program.

Area and Site Label	Session	FishID	Common Name	Fork Length (mm)	Weight (gm)	Age Structure	Age	Capture Code	Tag			
									Type	Number	Colour	
3												
0308	2	4493	Mountain whitefish	415	736	Scales		0	PIT		000000246843	
0308	2	4494	Mountain whitefish	318	360	Scales		0	PIT		000000245543	
0308	2	4495	Mountain whitefish	281	240	Scales	4	0	PIT		000000247171	
0308	2	4496	Longnose sucker	403	862			0				
0308	2	4497	Mountain whitefish	330	452	Scales		0	PIT		000000246798	
0308	2	4498	Mountain whitefish	407	730	Scales		0	PIT		000000246701	
0308	2	4499	Mountain whitefish	313	348	Scales	5	0	PIT		000000246896	
0308	2	4500	Mountain whitefish	282	274	Scales		0	PIT		000000246347	
0308	2	4501	Mountain whitefish	298	294	Scales	5	2	PIT		4D00032748	
0308	2	4502	Mountain whitefish	368	566	Scales		0	PIT		000000245904	
0308	2	4503	Mountain whitefish	278	232	Scales	4	0	PIT		000000246688	
0308	2	4504	Mountain whitefish	260	190	Scales		0	PIT		000000247032	
0308	2	4505	Mountain whitefish	245	148	Scales		0				
0308	2	4506	Mountain whitefish	288	250	Scales		0	PIT		000000246992	
0308	2	4507	Mountain whitefish	280	230	Scales		2	PIT		000000246280	
0308	2	4508	Mountain whitefish	218	118	Scales		0				
0308	2	4509	Mountain whitefish	205	92	Scales		0				
0308	2	4510	Mountain whitefish	290	248	Scales		0	PIT		000000247039	
0308	2	4511	Mountain whitefish	253	184	Scales	4	0	PIT		000000245912	
0308	2	4512	Mountain whitefish	160	44	Scales		0				
0308	2	4513	Mountain whitefish	139	30	Scales		0				
0308	2	4514	Mountain whitefish	167	52	Scales		0				
0308	2	4515	Mountain whitefish	388	610	Scales		2	PIT		000000244146	
0308	2	4516	Mountain whitefish	301	314	Scales		2	PIT		0A00735723	
0308	2	4517	Mountain whitefish	269	192	Scales		0	PIT		000000246527	
0308	2	4518	Mountain whitefish	276	226	Scales		0	PIT		000000245087	
0308	2	4519	Mountain whitefish	160	46	Scales		0				
0308	2	4520	Mountain whitefish	152	36	Scales		0				
0308	2	4521	Mountain whitefish	321	326	Scales		2	FLOY		10516	YELLOW
0308	2	4522	Mountain whitefish	293	260	Scales		0	PIT		000000246026	
0308	2	4523	Mountain whitefish	308	288	Scales		2	FLOY		16479	WHITE
0308	2	4524	Mountain whitefish	212	104	Scales	2	0				
0308	2	4525	Mountain whitefish	218	104	Scales		0				
0308	2	4526	Mountain whitefish	197	88	Scales		0				
0308	2	4527	Mountain whitefish	209	88	Scales		0				
0308	2	4528	Mountain whitefish	203	80	Scales		0				
0308	2	4529	Mountain whitefish	200	90	Scales		0				
0308	2	4530	Mountain whitefish	268	230	Scales		0	PIT		000000246572	
0308	2	4531	Mountain whitefish	154	36	Scales		0				
0308	2	4532	Mountain whitefish	153	34	Scales		0				
0303	3	5830	Longnose sucker	381	590			0				
0303	3	5831	Longnose sucker	358	586			0				
0303	3	5832	Largescale sucker	416	998			0				
0303	3	5833	Mountain whitefish	412	510	Scales		2	FLOY		16002	WHITE
0303	3	5834	Mountain whitefish	359	454	Scales		0	PIT		000000082745	
0303	3	5835	Mountain whitefish	352	430	Scales		2	PIT		000000078210	
0303	3	5836	Mountain whitefish	253	182	Scales		0	PIT		000000080981	
0303	3	5837	Mountain whitefish	315	320	Scales		2	FLOY		13573	WHITE
0303	3	5838	Mountain whitefish	307	334	Scales		2	PIT		4D00015342	
0303	3	5839	Largescale sucker	237	174			0				
0303	3	5840	Mountain whitefish	308	296	Scales		0	PIT		000000091556	
0303	3	5841	Mountain whitefish	265	218	Scales		0				
0303	3	5842	Mountain whitefish	391	650	Scales		2	PIT		4D00020012	
0303	3	5843	Mountain whitefish	287	236	Scales		2	PIT		000000244104	
0303	3	5844	Mountain whitefish	257	230	Scales		0	PIT		000000078210	
0303	3	5845	Mountain whitefish	256	168	Scales		0	PIT		000000093093	
0303	3	5846	Mountain whitefish	378	634	Scales		0	PIT		000000085282	
0303	3	5847	Mountain whitefish	265	238	Scales	4	0	PIT		000000093718	
0303	3	5848	Mountain whitefish	295	294	Scales		0	PIT		000000090942	
0303	3	5849	Mountain whitefish	341	410	Scales		2	FLOY		6028	YELLOW
0303	3	5850	Mountain whitefish	210	98	Scales		0				
0303	3	5851	Mountain whitefish	205	92	Scales		0				
0303	3	5852	Mountain whitefish	387	682	Scales		0	PIT		000000081949	
0303	3	5853	Mountain whitefish	210	108	Scales		0				

Appendix C Table C1. Biological characteristics data for sampled fish, 2008 Peace River Fish Community Indexing Program.

Area and Site Label	Session	FishID	Common Name	Fork Length (mm)	Weight (gm)	Age Structure	Age	Capture Code	Tag		
									Type	Number	Colour
3	0303	3	5854	Mountain whitefish	165	50	Scales				
	0303	3	5855	Mountain whitefish	404	688	Scales	7	0	PIT	:000000076976
	0303	3	5856	Mountain whitefish	317	330	Scales		2	FLOY	6022 YELLOW
	0303	3	5857	Mountain whitefish	292	254	Scales		0	PIT	:000000077240
	0303	3	5858	Mountain whitefish	201	80	Scales		0		
	0303	3	5859	Mountain whitefish	222	84	Scales		0		
	0303	3	5860	Mountain whitefish	222	120	Scales	2	0		
	0303	3	5861	Mountain whitefish	327	372	Scales		0	PIT	:000000078239
	0303	3	5862	Mountain whitefish	285	262	Scales		0	PIT	:000000079174
	0303	3	5863	Mountain whitefish	328	394	Scales		0	PIT	:000000088508
	0303	3	5864	Mountain whitefish	208	84	Scales	2	0		
	0303	3	5865	Mountain whitefish	277	238	Scales		0	PIT	:000000079459
	0303	3	5866	Longnose sucker	359	556			0		
	0303	3	5867	Mountain whitefish	192	68	Scales		0		
	0303	3	5868	Mountain whitefish	154	34	Scales		0		
	0303	3	5869	Mountain whitefish	285	242	Scales		2	PIT	:000000244432
	0303	3	5870	Mountain whitefish	205	90	Scales		0		
	0303	3	5871	Mountain whitefish	322	372	Scales		2	PIT	0A00717521
	0303	3	5872	Mountain whitefish	306	300	Scales		5	PIT	:000000086897
	0303	3	5873	Mountain whitefish	146	36	Scales		0		
	0303	3	5874	Mountain whitefish	200	74	Scales		0		
	0303	3	5875	Mountain whitefish	180	58	Scales		0		
	0303	3	5876	Mountain whitefish	322	356	Scales	5	0	PIT	:000000087952
	0303	3	5877	Mountain whitefish	263	188	Scales		0	PIT	:000000110480
	0303	3	5878	Mountain whitefish	274	222	Scales		0	PIT	:000000093532
	0303	3	5879	Mountain whitefish	200	80	Scales		0		
	0303	3	5880	Mountain whitefish	245	166	Scales		0		
	0303	3	5881	Mountain whitefish	278	216	Scales		0	PIT	:000000073118
	0303	3	5882	Mountain whitefish	250	168	Scales	3	0	PIT	:000000090981
	0303	3	5883	Mountain whitefish	215	108	Scales		0		
	0303	3	5884	Mountain whitefish	200	86	Scales		0		
	0303	3	5885	Mountain whitefish	202	86	Scales		0		
	0303	3	5886	Mountain whitefish	188	64	Scales		0		
	0303	3	5887	Mountain whitefish	194	74	Scales		0		
	0303	3	5888	Mountain whitefish	212	98	Scales		0		
	0301	3	5889	Arctic grayling	328	462	Scales	3	0	PIT	:000000091552
	0301	3	5890	Longnose sucker	400	882			0		
	0301	3	5891	Bull trout	485	1034	Fin Ray	5	0	PIT	:000000090828
	0301	3	5892	Mountain whitefish	361	414	Scales		2	PIT	4D00021734
	0301	3	5893	Mountain whitefish	347	372	Scales		2	PIT	0A00744236
	0301	3	5894	Mountain whitefish	314	360	Scales		2	FLOY	10334 YELLOW
	0301	3	5895	Mountain whitefish	289	298	Scales		0	PIT	:000000080619
	0301	3	5896	Mountain whitefish	208	96	Scales		0		
	0301	3	5897	Mountain whitefish	294	276	Scales		2	PIT	:000000247812
	0301	3	5898	Mountain whitefish	213	98	Scales		0		
	0301	3	5899	Mountain whitefish	213	96	Scales		0		
	0301	3	5900	Mountain whitefish	277	232	Scales		0	PIT	:000000089645
	0301	3	5901	Mountain whitefish	270	196	Scales		2	PIT	:000000244191
	0301	3	5902	Mountain whitefish	255	176	Scales		0	PIT	:000000089618
	0301	3	5903	Mountain whitefish	372	636	Scales		0	PIT	:000000087956
	0301	3	5904	Mountain whitefish	281	268	Scales		0	PIT	:000000077951
	0301	3	5905	Mountain whitefish	280	238	Scales		0	PIT	:000000082838
	0301	3	5906	Mountain whitefish	203	90	Scales		0		
	0301	3	5907	Mountain whitefish	203	86	Scales		0		
	0301	3	5908	Mountain whitefish	267	216	Scales		0	PIT	:000000088226
	0301	3	5909	Mountain whitefish	291	292	Scales		2	PIT	:000000238617
	0301	3	5910	Mountain whitefish	207	94	Scales		0		
	0301	3	5911	Mountain whitefish	322	386	Scales		2	PIT	4D00026475
	0301	3	5912	Mountain whitefish	203	84	Scales		0		
	0301	3	5913	Mountain whitefish	257	182	Scales		0	PIT	:000000087991
	0301	3	5914	Mountain whitefish	222	118	Scales		0		
	0301	3	5915	Mountain whitefish	299	300	Scales		0	PIT	:000000092504
	0301	3	5916	Mountain whitefish	353	480	Scales		2	PIT	:000000247881
	0301	3	5917	Mountain whitefish	317	336	Scales		2	PIT	:000000237764

Appendix C Table C1. Biological characteristics data for sampled fish, 2008 Peace River Fish Community Indexing Program.

Area and Site Label	Session	FishID	Common Name	Fork Length (mm)	Weight (gm)	Age Structure	Age	Capture Code	Tag		
									Type	Number	Colour
3											
	0301	3	5918	Mountain whitefish	269	220	Scales	2	PIT		:000000247370
	0301	3	5919	Mountain whitefish	388	678	Scales	2	PIT		:000000081949
	0301	3	5920	Mountain whitefish	380	636	Scales	2	PIT		:000000085282
	0301	3	5921	Mountain whitefish	259	172	Scales	2	PIT		:000000093093
	0301	3	5922	Mountain whitefish	315	352	Scales	0	PIT		:000000091337
	0301	3	5923	Mountain whitefish	324	332	Scales	2	PIT		4D00036233
	0301	3	5924	Mountain whitefish	257	186	Scales	2	PIT		:000000077644
	0301	3	5925	Mountain whitefish	347	510	Scales	0	PIT		:000000084903
	0301	3	5926	Mountain whitefish	296	282	Scales	4	0	PIT	:000000073186
	0301	3	5927	Mountain whitefish	217	106	Scales	0			
	0301	3	5928	Mountain whitefish	210	94	Scales	0			
	0301	3	5929	Mountain whitefish	220	114	Scales	0			
	0301	3	5930	Longnose sucker	130	22		0			
	0301	3	5931	Mountain whitefish	212	104	Scales	0			
	0301	3	5932	Mountain whitefish	258	222	Scales	0	PIT		:000000081713
	0301	3	5933	Mountain whitefish	207	94	Scales	0			
	0301	3	5934	Mountain whitefish	227		Scales	0			
	0301	3	5935	Mountain whitefish	283	260	Scales	0	PIT		:000000092999
	0301	3	5936	Mountain whitefish	206	96	Scales	0			
	0301	3	5937	Mountain whitefish	153	42	Scales	0			
	0301	3	5938	Mountain whitefish	242	172	Scales	3	0		
	0301	3	5939	Mountain whitefish	205	90	Scales	0			
	0301	3	5940	Rainbow trout	240	174		0			
	0302	3	5941	Longnose sucker	381	776		0			
	0302	3	5942	Longnose sucker	410	870		0			
	0302	3	5943	Longnose sucker	362	692		0			
	0302	3	5944	Largescale sucker	395	826		0			
	0302	3	5945	Longnose sucker	340	454		0			
	0302	3	5946	Longnose sucker	504	1364		0			
	0302	3	5947	Longnose sucker	350	590		0			
	0302	3	5948	Mountain whitefish	340	398	Scales	0	PIT		:000000084107
	0302	3	5949	Mountain whitefish	366	504	Scales	2	PIT		:000000239765
	0302	3	5950	Mountain whitefish	262	196	Scales	0	PIT		:000000090871
	0302	3	5951	Mountain whitefish	457	978	Scales	0	PIT		:000000090837
	0302	3	5952	Mountain whitefish	328	402	Scales	2	PIT		:000000243344
	0302	3	5953	Mountain whitefish	290	270	Scales	0	PIT		:000000084825
	0302	3	5954	Mountain whitefish	340	368	Scales	2	PIT		:000000242314
	0302	3	5955	Mountain whitefish	333	342	Scales	2	FLOY	6000	YELLOW
	0302	3	5956	Mountain whitefish	307	268	Scales	2	PIT		:000000242607
	0302	3	5957	Mountain whitefish	379	572	Scales	0	PIT		:000000084144
	0302	3	5958	Mountain whitefish	175	56	Scales	0			
	0302	3	5959	Mountain whitefish	370	524	Scales	2	FLOY	6906	YELLOW
	0302	3	5960	Mountain whitefish	272	232	Scales	4	0	PIT	:000000085012
	0302	3	5961	Mountain whitefish	305	308	Scales	0	PIT		:000000088126
	0302	3	5962	Mountain whitefish	348	456	Scales	2	PIT		:000000076818
	0302	3	5963	Mountain whitefish	378	496	Scales	0	PIT		:000000073272
	0302	3	5964	Mountain whitefish	344	422	Scales	0	PIT		:000000082464
	0302	3	5965	Mountain whitefish	403	732	Scales	0	PIT		:000000092425
	0302	3	5966	Mountain whitefish	294	274	Scales	2	PIT		:000000247197
	0302	3	5967	Mountain whitefish	305	288	Scales	2	PIT		:000000245302
	0302	3	5968	Mountain whitefish	354	474	Scales	0	PIT		:000000085245
	0302	3	5969	Mountain whitefish	237	132	Scales	0			
	0302	3	5970	Mountain whitefish	295	256	Scales	2	PIT		:000000245849
	0302	3	5971	Mountain whitefish	309	328	Scales	2	PIT		:000000244629
	0302	3	5972	Mountain whitefish	276	226	Scales	0	PIT		:000000091706
	0302	3	5973	Mountain whitefish	317	352	Scales	5	0	PIT	:000000077959
	0302	3	5974	Mountain whitefish	241	154	Scales	0			
	0302	3	5975	Mountain whitefish	286	290	Scales	2	PIT		0A00710921
	0302	3	5976	Mountain whitefish	285	254	Scales	0	PIT		:000000087716
	0302	3	5977	Mountain whitefish	389	600	Scales	0	PIT		:000000078203
	0302	3	5978	Mountain whitefish	320	342	Scales	0	PIT		:000000110105
	0302	3	5979	Mountain whitefish	249	158	Scales	0			
	0302	3	5980	Mountain whitefish	242	158	Scales	0			
	0302	3	5981	Mountain whitefish	277	214	Scales	0	PIT		:000000093884

Appendix C Table C1. Biological characteristics data for sampled fish, 2008 Peace River Fish Community Indexing Program.

Area and Site Label	Session	FishID	Common Name	Fork Length (mm)	Weight (gm)	Age Structure	Age	Capture Code	Tag		
									Type	Number	Colour
3											
0302	3	5982	Mountain whitefish	402	634	Scales		2	FLOY	14652	WHITE
0302	3	5983	Mountain whitefish	283	252	Scales		0	PIT	000000110747	
0302	3	5984	Mountain whitefish	355	424	Scales		2	FLOY	7251	YELLOW
0302	3	5985	Mountain whitefish	242		Scales		0			
0302	3	5986	Northern pikeminnow	237	150			0			
0302	3	5987	Mountain whitefish	392	630	Scales		2	FLOY	10325	YELLOW
0302	3	5988	Mountain whitefish	288	254	Scales		0	PIT	000000090829	
0302	3	5989	Mountain whitefish	242	144	Scales		0			
0302	3	5990	Mountain whitefish	157	46	Scales		0			
0302	3	5991	Mountain whitefish	247	172	Scales		3			
0302	3	5992	Mountain whitefish	201	90	Scales		2			
0302	3	5993	Mountain whitefish	217	114	Scales		0			
0302	3	5994	Mountain whitefish	204	86	Scales		2			
0302	3	5995	Mountain whitefish	214	102	Scales		0			
0302	3	5996	Mountain whitefish	211	98	Scales		0			
0302	3	5997	Mountain whitefish	201	82	Scales		2			
0302	3	5998	Mountain whitefish	163	50	Scales		0			
0302	3	5999	Mountain whitefish	205	90	Scales		0			
0302	3	6000	Mountain whitefish	214	98	Scales		0			
0302	3	6001	Mountain whitefish	206	94	Scales		0			
0304	3	6002	Longnose sucker	396	860			0			
0304	3	6003	Largescale sucker	497	1166			0			
0304	3	6004	Largescale sucker	394	838			0			
0304	3	6005	Mountain whitefish	344	476	Scales		2	PIT	000000244943	
0304	3	6006	Mountain whitefish	262	184	Scales		0	PIT	000000084905	
0304	3	6007	Mountain whitefish	321	346	Scales		2	PIT	000000245475	
0304	3	6008	Mountain whitefish	380	556	Scales		0	PIT	000000086489	
0304	3	6009	Mountain whitefish	369	484	Scales		2	FLOY	5960	YELLOW
0304	3	6010	Mountain whitefish	310	300	Scales		2	PIT	000000241464	
0304	3	6011	Mountain whitefish	325	356	Scales		0	PIT	000000085017	
0304	3	6012	Mountain whitefish	339	366	Scales		2	PIT	000000242314	
0304	3	6013	Mountain whitefish	272	210	Scales		2	PIT	000000246114	
0304	3	6014	Mountain whitefish	338	400	Scales		0	PIT	000000077795	
0304	3	6015	Mountain whitefish	339	400	Scales		2	FLOY	15659	WHITE
0304	3	6016	Mountain whitefish	367	396	Scales		0	PIT	000000086857	
0304	3	6017	Mountain whitefish	314	336	Scales		0	PIT	000000082551	
0304	3	6018	Mountain whitefish	297	242	Scales		2	PIT	4D00035424	
0304	3	6019	Mountain whitefish	319	348	Scales		0	PIT	000000079321	
0304	3	6020	Mountain whitefish	270	210	Scales		0	PIT	000000087850	
0304	3	6021	Mountain whitefish	302	282	Scales		2	PIT	000000239775	
0304	3	6022	Mountain whitefish	287	258	Scales		0	PIT	000000091065	
0304	3	6023	Mountain whitefish	301	316	Scales		0	PIT	000000079496	
0304	3	6024	Mountain whitefish	295	298	Scales		0	PIT	000000090307	
0304	3	6025	Mountain whitefish	276	216	Scales		5	PIT	000000244463	
0304	3	6026	Mountain whitefish	290	240	Scales		0	PIT	000000109860	
0304	3	6027	Mountain whitefish	275	220	Scales		0	PIT	000000078454	
0304	3	6028	Mountain whitefish	331	330	Scales		0	PIT	000000087020	
0304	3	6029	Mountain whitefish	283	228	Scales		0	PIT	000000092645	
0304	3	6030	Mountain whitefish	237	140	Scales		0			
0304	3	6031	Mountain whitefish	255	186	Scales		4	PIT	000000092150	
0304	3	6032	Mountain whitefish	367	498	Scales		0	PIT	000000088087	
0304	3	6033	Mountain whitefish	391	548	Scales		2	FLOY	12424	WHITE
0304	3	6034	Mountain whitefish	375	492	Scales		2	PIT	000000077799	
0304	3	6035	Mountain whitefish	286	298	Scales		0	PIT	000000081110	
0304	3	6036	Mountain whitefish	307	316	Scales		5	PIT	000000090193	
0304	3	6037	Mountain whitefish	403	586	Scales		2	FLOY	2993	YELLOW
0304	3	6038	Mountain whitefish	377	560	Scales		2	PIT	0A00726752	
0304	3	6039	Mountain whitefish	240	156	Scales		0			
0304	3	6040	Mountain whitefish	234	154	Scales		3			
0304	3	6041	Mountain whitefish	305	312	Scales		0	PIT	000000078588	
0304	3	6042	Mountain whitefish	259	178	Scales		0	PIT	000000092272	
0304	3	6043	Mountain whitefish	248	158	Scales		0			
0304	3	6044	Mountain whitefish	319	358	Scales		0	PIT	000000092292	
0304	3	6045	Mountain whitefish	216	106	Scales		0			

Appendix C Table C1. Biological characteristics data for sampled fish, 2008 Peace River Fish Community Indexing Program.

Area and Site Label	Session	FishID	Common Name	Fork Length (mm)	Weight (gm)	Age Structure	Age	Capture Code	Tag		
									Type	Number	Colour
3											
0304	3	6046	Mountain whitefish	293	316	Scales	5	0			
0304	3	6047	Mountain whitefish	205	92	Scales		0			
0304	3	6048	Mountain whitefish	154	36	Scales	1	0			
0304	3	6049	Mountain whitefish	235	128	Scales		0			
0304	3	6050	Mountain whitefish	261	156	Scales		0	PIT		:000000092159
0304	3	6051	Mountain whitefish	280	268	Scales		0	PIT		:000000091550
0304	3	6052	Mountain whitefish	328	326	Scales		0	PIT		:000000090335
0304	3	6053	Mountain whitefish	176	54	Scales		0			
0304	3	6054	Mountain whitefish	141	28	Scales		0			
0304	3	6055	Mountain whitefish	190	76	Scales		0			
0304	3	6056	Mountain whitefish	176	48	Scales		0			
0304	3	6057	Mountain whitefish	203	94	Scales		0			
0304	3	6058	Mountain whitefish	263	176	Scales		0	PIT		:000000088269
0304	3	6059	Mountain whitefish	207	94	Scales		0			
0304	3	6060	Mountain whitefish	186	72	Scales		0			
0305	3	6061	Walleye	400	686			0			
0305	3	6062	Largescale sucker	454	1072			0			
0305	3	6063	Longnose sucker	310	372			0			
0305	3	6064	Longnose sucker	425	984			0			
0305	3	6065	Longnose sucker	434	1012			0			
0305	3	6066	Longnose sucker	414	1062			0			
0305	3	6067	Longnose sucker	342	464			0			
0305	3	6068	Longnose sucker	350	602			0			
0305	3	6069	Longnose sucker	375	652			0			
0305	3	6070	Longnose sucker	324	426			0			
0305	3	6071	Longnose sucker	246	184			0			
0305	3	6072	Longnose sucker	250	194			0			
0305	3	6073	Longnose sucker	276	266			0			
0305	3	6074	Largescale sucker	230	136			0			
0305	3	6075	Mountain whitefish	355	536	Scales		1			
0305	3	6076	Mountain whitefish	415	698	Scales		0	PIT		:000000089478
0305	3	6077	Mountain whitefish	383	636	Scales		2	FLOY		10416 YELLOW
0305	3	6078	Mountain whitefish	380	524	Scales		2	PIT		4D00034976
0305	3	6079	Mountain whitefish	342	490	Scales		0			
0305	3	6080	Mountain whitefish	383	576	Scales	6	2	PIT		:000000242374
0305	3	6081	Mountain whitefish	317	346	Scales		0	PIT		:000000092501
0305	3	6082	Mountain whitefish	338	410	Scales		0	PIT		:000000086214
0305	3	6083	Mountain whitefish	309	338	Scales		2	PIT		:000000082551
0305	3	6084	Mountain whitefish	317	315	Scales		0	PIT		:000000112712
0305	3	6085	Mountain whitefish	282	236	Scales		0	PIT		:000000079317
0305	3	6086	Mountain whitefish	317	322	Scales		2	PIT		0A00720221
0305	3	6087	Mountain whitefish	392	562	Scales		0	PIT		:000000073228
0305	3	6088	Mountain whitefish	352	494	Scales		0	PIT		:000000093187
0305	3	6089	Mountain whitefish	295	304	Scales		0	PIT		:000000089031
0305	3	6090	Mountain whitefish	330	404	Scales		0	PIT		:000000089105
0305	3	6091	Mountain whitefish	362	540	Scales		0	PIT		:000000080862
0305	3	6092	Mountain whitefish	329	376	Scales		2	PIT		:000000245758
0305	3	6093	Mountain whitefish	296	286	Scales	5	0	PIT		:000000073095
0305	3	6094	Mountain whitefish	360	452	Scales		0	PIT		:000000073172
0305	3	6095	Mountain whitefish	283	270	Scales		0	PIT		:000000090059
0305	3	6096	Mountain whitefish	332	400	Scales		0	PIT		:000000109613
0305	3	6097	Mountain whitefish	334	386	Scales		2	PIT		0A00743174
0305	3	6098	Mountain whitefish	360	456	Scales		0	PIT		:000000092610
0305	3	6099	Mountain whitefish	278	238	Scales		0	PIT		:000000089788
0305	3	6100	Mountain whitefish	325	412	Scales		0	PIT		:000000084057
0305	3	6101	Mountain whitefish	261	190	Scales		2	PIT		:000000247349
0305	3	6102	Mountain whitefish	340	412	Scales		2	FLOY		12421 WHITE
0305	3	6103	Mountain whitefish	392		Scales		0	PIT		:000000076697
0305	3	6104	Bull trout	265	192			2	PIT		:000000248301
0305	3	6105	Mountain whitefish	300	314	Scales		0	PIT		:000000085369
0305	3	6106	Mountain whitefish	414	752	Scales		0	PIT		:000000091427
0305	3	6107	Mountain whitefish	360	504	Scales		0	PIT		:000000085478
0305	3	6108	Mountain whitefish	190	68	Scales		0			
0305	3	6109	Mountain whitefish	287	282	Scales	4	0	PIT		:000000084608

Appendix C Table C1. Biological characteristics data for sampled fish, 2008 Peace River Fish Community Indexing Program.

Area and Site Label	Session	FishID	Common Name	Fork Length (mm)	Weight (gm)	Age Structure	Age	Capture Code	Tag		
									Type	Number	Colour
3											
	0305	3	6110	Mountain whitefish	367	546	Scales	0	PIT		:000000093534
	0305	3	6111	Longnose sucker	233	158		0			
	0305	3	6112	Mountain whitefish	325	372	Scales	0	PIT		:000000079169
	0305	3	6113	Mountain whitefish	257	180	Scales	0	PIT		:000000090711
	0305	3	6114	Mountain whitefish	378	490	Scales	2	PIT		:000000244893
	0305	3	6115	Mountain whitefish	284	266	Scales	0	PIT		:000000086896
	0305	3	6116	Mountain whitefish	220	118	Scales	0			
	0305	3	6117	Mountain whitefish	341	462	Scales	0	PIT		:000000090305
	0305	3	6118	Mountain whitefish	305	328	Scales	2	PIT		:000000244564
	0305	3	6119	Mountain whitefish	288	288	Scales	4	0	PIT	:000000079720
	0305	3	6120	Mountain whitefish	297	322	Scales	0	PIT		:000000083885
	0305	3	6121	Mountain whitefish	290	274	Scales	0	PIT		:000000085060
	0305	3	6122	Northern pikeminnow	290	290		0			
	0305	3	6123	Mountain whitefish	358	432	Scales	6	0	PIT	:000000077231
	0305	3	6124	Mountain whitefish	313	340	Scales	0	PIT		:000000085759
	0305	3	6125	Mountain whitefish	307	314	Scales	0	PIT		:000000086239
	0305	3	6126	Mountain whitefish	330	380	Scales	0	PIT		:000000088673
	0305	3	6127	Mountain whitefish	252	180	Scales	0	PIT		:000000085645
	0305	3	6128	Mountain whitefish	239	136	Scales	0			
	0305	3	6129	Mountain whitefish	215	98	Scales	0			
	0305	3	6130	Mountain whitefish	313	306	Scales	0	PIT		:000000093309
	0305	3	6131	Mountain whitefish	242	144	Scales	0			
	0305	3	6132	Mountain whitefish	290	290	Scales	2	PIT		:000000244630
	0305	3	6133	Mountain whitefish	260	184	Scales	3	0	PIT	:000000091438
	0305	3	6134	Largescale sucker	196	94		0			
	0305	3	6135	Mountain whitefish	211	94	Scales	0			
	0305	3	6136	Mountain whitefish	257	172	Scales	2	PIT		:000000246882
	0305	3	6137	Mountain whitefish	211	90	Scales	0			
	0314	3	6138	Walleye	430	906		0			
	0314	3	6139	Mountain whitefish	419	736	Scales	0	PIT		:000000091219
	0314	3	6140	Mountain whitefish	252	172	Scales	2	PIT		:000000248037
	0314	3	6141	Mountain whitefish	320	368	Scales	2	FLOY	11253	WHITE
	0314	3	6142	Mountain whitefish	283	258	Scales	0	PIT		:000000085723
	0314	3	6143	Mountain whitefish	233	138	Scales	0			
	0314	3	6144	Rainbow trout	225	118		0			
	0314	3	6145	Mountain whitefish	212	108	Scales	0			
	0314	3	6146	Mountain whitefish	248	150	Scales	0			
	0314	3	6147	Mountain whitefish	237	136	Scales	0			
	0314	3	6148	Mountain whitefish	210	98	Scales	0			
	0314	3	6149	Mountain whitefish	155	36	Scales	0			
	0314	3	6150	Mountain whitefish	176	52	Scales	0			
	0306	3	6151	Bull trout	504	1380		6	2	PIT	4D00017803
	0306	3	6152	Longnose sucker	389	748		0			
	0306	3	6153	Longnose sucker	345	546		0			
	0306	3	6154	Longnose sucker	288	328		0			
	0306	3	6155	Largescale sucker	432	1038		0			
	0306	3	6156	Longnose sucker	386	800		0			
	0306	3	6157	Longnose sucker	302	348		0			
	0306	3	6158	Longnose sucker	345	504		0			
	0306	3	6159	Longnose sucker	359	536		0			
	0306	3	6160	Longnose sucker	284	300		0			
	0306	3	6161	Largescale sucker	465	1520		0			
	0306	3	6162	Longnose sucker	442	1086		0			
	0306	3	6163	Northern pikeminnow	348	546		0			
	0306	3	6164	Longnose sucker	337	542		0			
	0306	3	6165	Longnose sucker	370	644		0			
	0306	3	6166	Longnose sucker	250	186		0			
	0306	3	6167	Longnose sucker	403	950		0			
	0306	3	6168	Longnose sucker	404	810		0			
	0306	3	6169	Longnose sucker	306	360		0			
	0306	3	6170	Longnose sucker	368	642		0			
	0306	3	6171	Longnose sucker	309	358		0			
	0306	3	6172	Longnose sucker	322	424		0			
	0306	3	6173	Longnose sucker	292	278		0			

Appendix C Table C1. Biological characteristics data for sampled fish, 2008 Peace River Fish Community Indexing Program.

Area and Site Label	Session	FishID	Common Name	Fork Length (mm)	Weight (gm)	Age Structure	Age	Capture Code	Tag			
									Type	Number	Colour	
3	0306	3	6174	Largescale sucker	270	244		0				
	0306	3	6175	Longnose sucker	325	450		0				
	0306	3	6176	Longnose sucker	323	414		0				
	0306	3	6177	Mountain whitefish	156	40	Scales	0				
	0306	3	6178	Mountain whitefish	353	448	Scales	0	PIT	000000091814		
	0306	3	6179	Longnose sucker	378	714		0				
	0306	3	6180	Mountain whitefish	317	406	Scales	0	PIT	000000091798		
	0306	3	6181	Mountain whitefish	407	764	Scales	2	FLOY	12444	WHITE	
	0306	3	6182	Mountain whitefish	318	396	Scales	2	PIT	000000242223		
	0306	3	6183	Mountain whitefish	345	486	Scales	0	PIT	000000078563		
	0306	3	6184	Mountain whitefish	348	402	Scales	2	PIT	000000247676		
	0306	3	6185	Mountain whitefish	382	544	Scales	2	FLOY	3196	YELLOW	
	0306	3	6186	Mountain whitefish	328	382	Scales	0	PIT	000000085405		
	0306	3	6187	Mountain whitefish	370	538	Scales	0	PIT	000000109360		
	0306	3	6188	Mountain whitefish	411	698	Scales	0	PIT	000000083210		
	0306	3	6189	Mountain whitefish	302	278	Scales	0	PIT	000000110613		
	0306	3	6190	Mountain whitefish	330	382	Scales	0	PIT	000000083636		
	0306	3	6191	Mountain whitefish	374	488	Scales	0	PIT	000000088903		
	0306	3	6192	Mountain whitefish	320	338	Scales	0	PIT	000000079308		
	0306	3	6193	Mountain whitefish	370	502	Scales	0	PIT	000000079353		
	0306	3	6194	Mountain whitefish	279	242	Scales	0	PIT	000000092035		
	0306	3	6195	Mountain whitefish	275	260	Scales	0	PIT	000000084111		
	0306	3	6196	Mountain whitefish	306	292	Scales	0	PIT	000000093023		
	0306	3	6197	Mountain whitefish	336	398	Scales	2	PIT	000000238982		
	0306	3	6198	Mountain whitefish	289	250	Scales	0	PIT	000000073056		
	0306	3	6199	Mountain whitefish	380	636	Scales	0	PIT	000000084199		
	0306	3	6200	Longnose sucker	122	26		0				
	0306	3	6201	Largescale sucker	200	104		0				
	0306	3	6202	Longnose sucker	119	24		0				
	0306	3	6203	Longnose sucker	164	56		0				
	0306	3	6204	Mountain whitefish	284	254	Scales	0	PIT	000000085648		
	0306	3	6205	Mountain whitefish	360	542	Scales	0	PIT	000000081589		
	0306	3	6206	Longnose sucker	208	124		0				
	0306	3	6207	Largescale sucker	156	46		0				
	0306	3	6208	Mountain whitefish	234	124	Scales	0				
	0306	3	6209	Longnose sucker	147	36		0				
	0305	3	6210	Largescale sucker	452	1366		0				
	0305	3	6211	Mountain whitefish	298	266	Scales	0	PIT	000000083138		
	0305	3	6212	Mountain whitefish	327	390	Scales	0	PIT	000000073241		
	0305	3	6213	Mountain whitefish	210	92	Scales	2	0			
	0305	3	6214	Mountain whitefish	290	250	Scales	0	PIT	000000084384		
	0305	3	6215	Mountain whitefish	335	388	Scales	0	PIT	000000087131		
	0305	3	6216	Bull trout	262	190		2	PIT	000000248301		
	0305	3	6217	Mountain whitefish	367	492	Scales	2	FLOY	10453	YELLOW	
	0305	3	6218	Mountain whitefish	379	568	Scales	0	PIT	000000087435		
	0305	3	6219	Mountain whitefish	441	842	Scales	0	PIT	000000109741		
	0305	3	6220	Mountain whitefish	340	446	Scales	0	PIT	000000082355		
	0305	3	6221	Mountain whitefish	255	216	Scales	0	PIT	000000086371		
	0305	3	6222	Mountain whitefish	200	86	Scales	0				
	0305	3	6223	Bull trout	548	1774	Fin Ray	5	0	PIT	000000085718	
	0305	3	6224	Mountain whitefish	222	108	Scales	0				
	0305	3	6225	Mountain whitefish	81	6	Scales	0				
	0305	3	6226	Mountain whitefish	346	522	Scales	0	PIT	000000090941		
	0305	3	6227	Mountain whitefish	353	392	Scales	0	PIT	000000082993		
	0305	3	6228	Mountain whitefish	399	648	Scales	2	FLOY	8958	YELLOW	
	0305	3	6229	Mountain whitefish	291	274	Scales	5	0	PIT	000000078098	
	0305	3	6230	Mountain whitefish	297	296	Scales	0	PIT	000000082263		
	0305	3	6231	Mountain whitefish	208	80	Scales	0				
	0305	3	6232	Mountain whitefish	182	74	Scales	0				
	0305	3	6233	Mountain whitefish	195	74	Scales	0				
	0305	3	6234	Mountain whitefish	348	460	Scales	0	PIT	000000077652		
	0305	3	6235	Mountain whitefish	320	396	Scales	0	PIT	000000085997		
	0305	3	6236	Mountain whitefish	292	270	Scales	0	PIT	000000089895		
	0305	3	6237	Largescale sucker	173	64		0				

Appendix C Table C1. Biological characteristics data for sampled fish, 2008 Peace River Fish Community Indexing Program.

Area and Site Label	Session	FishID	Common Name	Fork Length (mm)	Weight (gm)	Age Structure	Age	Capture Code	Tag		
									Type	Number	Colour
3											
0307	3	6302	Mountain whitefish	163	46	Scales	1	0			
0307	3	6303	Mountain whitefish	207	86	Scales		0			
0307	3	6304	Mountain whitefish	291	272	Scales		0	PIT	:000000247846	
0307	3	6305	Mountain whitefish	330	372	Scales		0	PIT	:000000248089	
0307	3	6306	Mountain whitefish	154	38	Scales		0			
0315	3	6307	Northern pikeminnow	400	762			0			
0315	3	6308	Largescale sucker	456	1215			0			
0315	3	6309	Mountain whitefish	303	322	Scales		2	FLOY	13519	WHITE
0315	3	6310	Mountain whitefish	389	568	Scales		0	PIT	:000000248279	
0315	3	6311	Arctic grayling	166	62	Scales	1	0			
0315	3	6312	Mountain whitefish	200	92	Scales		0			
0315	3	6313	Mountain whitefish	282	274	Scales		2	PIT	:000000245782	
0315	3	6314	Mountain whitefish	358	542	Scales		1			
0315	3	6315	Mountain whitefish	287	258	Scales		0	PIT	:000000247833	
0315	3	6316	Mountain whitefish	325	410	Scales		0	PIT	:000000247477	
0315	3	6317	Mountain whitefish	344	460	Scales		2	PIT	0A00735576	
0315	3	6318	Mountain whitefish	291	288	Scales		0	PIT	:000000248192	
0315	3	6319	Arctic grayling	266	250	Scales	2	0	PIT	:000000247394	
0315	3	6320	Largescale sucker	434	1040			0			
0315	3	6321	Mountain whitefish	285	278	Scales		2	PIT	0A00707854	
0315	3	6322	Mountain whitefish	292	284	Scales		0			
0315	3	6323	Mountain whitefish	295	304	Scales		0	PIT	:000000247533	
0315	3	6324	Arctic grayling	327	282	Scales	3	0	PIT	:000000247493	
0315	3	6325	Mountain whitefish	310	328	Scales		2	PIT	:000000247882	
0315	3	6326	Walleye	388	568			0			
0315	3	6327	Mountain whitefish	346	424	Scales		0	PIT	:000000248285	
0315	3	6328	Longnose sucker	421	986			0			
0315	3	6329	Mountain whitefish	326	382	Scales		0	PIT	:000000247530	
0315	3	6330	Mountain whitefish	284	236	Scales		0	PIT	:000000247680	
0315	3	6331	Mountain whitefish	368	484	Scales		2	FLOY	7282	YELLOW
0315	3	6332	Mountain whitefish	350	472	Scales		0	PIT	:000000248281	
0315	3	6333	Mountain whitefish	307	328	Scales		0	PIT	:000000248058	
0315	3	6334	Mountain whitefish	251	182	Scales		0			
0315	3	6335	Mountain whitefish	292	294	Scales		0	PIT	:000000246788	
0315	3	6336	Mountain whitefish	344	464	Scales		0	PIT	:000000247919	
0315	3	6337	Mountain whitefish	268	270	Scales		0	PIT	:000000248047	
0315	3	6338	Mountain whitefish	398	632	Scales		2	PIT	:000000247870	
0315	3	6339	Mountain whitefish	297	288	Scales		0	PIT	:000000248197	
0315	3	6340	Mountain whitefish	342	532	Scales		2	PIT	:000000110896	
0315	3	6341	Mountain whitefish	290	290	Scales		2	PIT	:000000242147	
0315	3	6342	Mountain whitefish	272	228	Scales		2	PIT	:000000245461	
0315	3	6343	Mountain whitefish	238	158	Scales		0			
0315	3	6344	Mountain whitefish	297	308	Scales		0	PIT	:000000248106	
0315	3	6345	Mountain whitefish	242	162	Scales		0			
0315	3	6346	Mountain whitefish	200	86	Scales	2	0			
0315	3	6347	Mountain whitefish	205	98	Scales		0			
0315	3	6348	Mountain whitefish	241	146	Scales		0			
0315	3	6349	Mountain whitefish	270	212	Scales		0	PIT	:000000247992	
0315	3	6350	Mountain whitefish	210	102	Scales		0			
0315	3	6351	Mountain whitefish	231	134	Scales		0			
0315	3	6352	Mountain whitefish	192	68	Scales		0			
0315	3	6353	Longnose sucker	369	734			0			
0315	3	6354	Longnose sucker	364	620			0			
0315	3	6355	Mountain whitefish	298	298	Scales	4	0	PIT	:000000247491	
0315	3	6356	Mountain whitefish	270	222	Scales		0	PIT	:000000247482	
0315	3	6357	Mountain whitefish	322	358	Scales		0	PIT	:000000248234	
0315	3	6358	Mountain whitefish	288	272	Scales		0	PIT	:000000247938	
0315	3	6359	Mountain whitefish	185	70	Scales	2	0			
0315	3	6360	Mountain whitefish	188	74	Scales		0			
0315	3	6361	Mountain whitefish	277	240	Scales		0	PIT	:000000247354	
0315	3	6362	Mountain whitefish	306	308	Scales		2	PIT	:000000243253	
0315	3	6363	Mountain whitefish	314	304	Scales		0	PIT	:000000083777	
0315	3	6364	Mountain whitefish	342	410	Scales		0	PIT	:000000077500	
0315	3	6365	Mountain whitefish	240	162	Scales		0			

Appendix C Table C1. Biological characteristics data for sampled fish, 2008 Peace River Fish Community Indexing Program.

Area and Site Label	Session	FishID	Common Name	Fork Length (mm)	Weight (gm)	Age Structure	Age	Capture Code	Tag Type	Tag Number	Tag Colour
3											
0315	3	6366	Longnose sucker	360	586			0			
0315	3	6367	Mountain whitefish	255	184	Scales		0	PIT	000000093570	
0315	3	6368	Mountain whitefish	296	294	Scales		0	PIT	000000078209	
0315	3	6369	Mountain whitefish	265	200	Scales		0	PIT	000000092743	
0315	3	6370	Mountain whitefish	342	468	Scales		2	PIT	0A00710769	
0315	3	6371	Mountain whitefish	266	206	Scales		2	PIT	000000087850	
0315	3	6372	Mountain whitefish	272	250	Scales		0	PIT	000000077661	
0315	3	6373	Mountain whitefish	190	72	Scales		0			
0315	3	6374	Mountain whitefish	295	288	Scales		0	PIT	000000109624	
0315	3	6375	Mountain whitefish	297	288	Scales		2	PIT	000000239048	
0315	3	6376	Mountain whitefish	289	312	Scales		0	PIT	000000093276	
0315	3	6377	Mountain whitefish	355	466	Scales		0	PIT	000000090987	
0315	3	6378	Mountain whitefish	289	254	Scales		2	PIT	000000245742	
0315	3	6379	Mountain whitefish	325	372	Scales		2	FLOY	10484	YELLOW
0315	3	6380	Mountain whitefish	282	248	Scales		0	PIT	000000086999	
0315	3	6381	Mountain whitefish	266	212	Scales		0	PIT	000000093429	
0315	3	6382	Mountain whitefish	355	402	Scales		0	PIT	000000088128	
0315	3	6383	Mountain whitefish	340	390	Scales		0	PIT	000000090831	
0315	3	6384	Mountain whitefish	297	314	Scales		0	PIT	000000088515	
0315	3	6385	Mountain whitefish	272	250	Scales		2	PIT	000000244681	
0315	3	6386	Mountain whitefish	302	310	Scales	4	2	PIT	0A00723911	
0315	3	6387	Mountain whitefish	271	230	Scales		2	PIT	000000244352	
0315	3	6388	Mountain whitefish	235	142	Scales	3	0			
0315	3	6389	Mountain whitefish	197	80	Scales	2	0			
0315	3	6390	Mountain whitefish	257	204	Scales		0	PIT	000000077513	
0315	3	6391	Mountain whitefish	202	82	Scales	2	0			
0315	3	6392	Mountain whitefish	205	92	Scales		0			
0315	3	6393	Mountain whitefish	305	338	Scales		0	PIT	000000111352	
0315	3	6394	Mountain whitefish	261	244	Scales		0	PIT	000000073204	
0315	3	6395	Mountain whitefish	245	158	Scales		0			
0315	3	6396	Mountain whitefish	245	176	Scales		0			
0315	3	6397	Mountain whitefish	202	86	Scales		0			
0315	3	6398	Mountain whitefish	274	218	Scales		0	PIT	000000078696	
0316	3	6399	Longnose sucker	414	982			0			
0316	3	6400	Longnose sucker	479	1208			0			
0316	3	6401	Longnose sucker	430	1062			0			
0316	3	6402	Longnose sucker	437	854			0			
0316	3	6403	Longnose sucker	405	898			0			
0316	3	6404	Bull trout	400	672	Fin Ray	5	0	PIT	000000090445	
0316	3	6405	Arctic grayling	311	424	Scales	3	0	PIT	000000088648	
0316	3	6406	Mountain whitefish	249	162	Scales		0			
0316	3	6407	Mountain whitefish	266	208	Scales		0	PIT	000000084380	
0316	3	6408	Mountain whitefish	310	318	Scales		0	PIT	000000083684	
0316	3	6409	Mountain whitefish	337	334	Scales		2	FLOY	11447	WHITE
0316	3	6410	Mountain whitefish	292	278	Scales		0	PIT	000000085654	
0316	3	6411	Mountain whitefish	318	378	Scales		2	PIT	0A00711405	
0316	3	6412	Mountain whitefish	275	288	Scales		2	PIT	4D00014341	
0316	3	6413	Mountain whitefish	245	154	Scales		0			
0316	3	6414	Mountain whitefish	328	356	Scales		2	FLOY	15742	WHITE
0316	3	6415	Mountain whitefish	267	244	Scales		2	PIT	000000238526	
0316	3	6416	Mountain whitefish	208	100	Scales		0			
0316	3	6417	Mountain whitefish	297	274	Scales		2	PIT	000000243983	
0316	3	6418	Mountain whitefish	274	244	Scales	5	0	PIT	000000086248	
0316	3	6419	Mountain whitefish	278	226	Scales		2	PIT	000000247404	
0316	3	6420	Mountain whitefish	277	254	Scales	3	0	PIT	000000110601	
0316	3	6421	Mountain whitefish	223	128	Scales		0			
0316	3	6422	Mountain whitefish	245	154	Scales		0			
0316	3	6423	Mountain whitefish	214	120	Scales		0			
0316	3	6424	Mountain whitefish	232	158	Scales		0			
0316	3	6425	Mountain whitefish	387	580	Scales		0			
0316	3	6426	Mountain whitefish	297	264	Scales		2	PIT	000000247549	
0316	3	6427	Mountain whitefish	279	220	Scales		2	PIT	000000246644	
0316	3	6428	Mountain whitefish	312	306	Scales	4	2	PIT	000000240341	
0316	3	6429	Mountain whitefish	225	128	Scales		0			

Appendix C Table C1. Biological characteristics data for sampled fish, 2008 Peace River Fish Community Indexing Program.

Area and Site Label	Session	FishID	Common Name	Fork Length (mm)	Weight (gm)	Age Structure	Age	Capture Code	Tag		
									Type	Number	Colour
3	0316	3	6430	Mountain whitefish	366	538	Scales	0	PIT	000000085641	
	0316	3	6431	Mountain whitefish	284	260	Scales	0	PIT	000000091338	
	0316	3	6432	Mountain whitefish	277	232	Scales	2	PIT	000000247662	
	0316	3	6433	Mountain whitefish	292	274	Scales	2	PIT	000000243950	
	0316	3	6434	Mountain whitefish	225	118	Scales	0			
	0316	3	6435	Mountain whitefish	252	182	Scales	0	PIT	000000084933	
	0316	3	6436	Mountain whitefish	220	114	Scales	0			
	0316	3	6437	Mountain whitefish	271	250	Scales	0	PIT	000000086632	
	0316	3	6438	Mountain whitefish	288	304	Scales	2	PIT	0A00712549	
	0316	3	6439	Mountain whitefish	257	184	Scales	0	PIT	000000089346	
	0316	3	6440	Mountain whitefish	217	110	Scales	0			
	0316	3	6441	Mountain whitefish	285	236	Scales	2	PIT	000000240853	
	0316	3	6442	Mountain whitefish	213	102	Scales	2	0		
	0316	3	6443	Mountain whitefish	262	196	Scales	4	0	PIT	000000080865
	0316	3	6444	Mountain whitefish	281	222	Scales	2	PIT	0A00712814	
	0316	3	6445	Mountain whitefish	219	110	Scales	0			
	0316	3	6446	Mountain whitefish	213	98	Scales	0			
	0316	3	6447	Mountain whitefish	273	240	Scales	0	PIT	000000077655	
	0316	3	6448	Mountain whitefish	198	86	Scales	0			
	0316	3	6449	Mountain whitefish	220	112	Scales	2	0		
	0316	3	6450	Mountain whitefish	310	322	Scales	0	PIT	000000078699	
	0316	3	6451	Mountain whitefish	210	98	Scales	0			
	0316	3	6452	Mountain whitefish	219	108	Scales	0			
	0316	3	6453	Mountain whitefish	317	348	Scales	0	PIT	000000073099	
	0316	3	6454	Mountain whitefish	207	98	Scales	0			
	0316	3	6455	Mountain whitefish	207	90	Scales	0			
	0316	3	6456	Mountain whitefish	209	106	Scales	0			
	0316	3	6457	Mountain whitefish	203	94	Scales	0			
	0316	3	6458	Mountain whitefish	150	40	Scales	1	0		
	0316	3	6459	Mountain whitefish	192	84	Scales	0			
	0316	3	6460	Mountain whitefish	218	114	Scales	0			
	0308	3	6461	Largescale sucker	456	1336		0			
	0308	3	6462	Longnose sucker	432	1190		0			
	0308	3	6463	Longnose sucker	392	970		0			
	0308	3	6464	Longnose sucker	391	854		0			
	0308	3	6465	Longnose sucker	426	1052		0			
	0308	3	6466	Longnose sucker	378	678		0			
	0308	3	6467	Longnose sucker	347	588		0			
	0308	3	6468	Longnose sucker	366	652		0			
	0308	3	6469	Bull trout	575	2080	Fin Ray	5	0	PIT	000000093821
	0308	3	6470	Mountain whitefish	352	426	Scales	2	PIT	000000245569	
	0308	3	6471	Mountain whitefish	272	236	Scales	0	PIT	000000089514	
	0308	3	6472	Mountain whitefish	307	334	Scales	2	PIT	000000243539	
	0308	3	6473	Mountain whitefish	308	348	Scales	0	PIT	000000245541	
	0308	3	6474	Mountain whitefish	304	310	Scales	0	PIT	000000087825	
	0308	3	6475	Mountain whitefish	409	652	Scales	2	FLOY	11263	WHITE
	0308	3	6476	Mountain whitefish	291	300	Scales	2	FLOY	16513	WHITE
	0308	3	6477	Mountain whitefish	301	338	Scales	0	PIT	000000090045	
	0308	3	6478	Mountain whitefish	243	154	Scales	3	0		
	0308	3	6479	Mountain whitefish	369	502	Scales	2	PIT	000000245164	
	0308	3	6480	Mountain whitefish	312	310	Scales	0	PIT	000000082834	
	0308	3	6481	Mountain whitefish	309	338	Scales	2	PIT	000000239442	
	0308	3	6482	Mountain whitefish	286	264	Scales	0	PIT	000000073196	
	0308	3	6483	Mountain whitefish	330	386	Scales	2	PIT	4D00027942	
	0308	3	6484	Mountain whitefish	414	768	Scales	0	PIT	000000110503	
	0308	3	6485	Mountain whitefish	304	308	Scales	2	PIT	000000237744	
	0308	3	6486	Rainbow trout	145	40		0			
	0308	3	6487	Mountain whitefish	396	664	Scales	5	PIT	000000076541	
	0308	3	6488	Mountain whitefish	271	236	Scales	0	PIT	000000091312	
	0308	3	6489	Mountain whitefish	238	152	Scales	0			
	0308	3	6490	Mountain whitefish	341	434	Scales	2	PIT	0A00712334	
	0308	3	6491	Mountain whitefish	294	304	Scales	4	0	PIT	000000077118
	0308	3	6492	Mountain whitefish	304	306	Scales	0	PIT	000000090826	
	0308	3	6493	Mountain whitefish	350	424	Scales	2	PIT	000000245056	

Appendix C Table C1. Biological characteristics data for sampled fish, 2008 Peace River Fish
Community Indexing Program.

Area and Site Label	Session	FishID	Common Name	Fork Length (mm)	Weight (gm)	Age Structure	Age	Capture Code	Tag		
									Type	Number	Colour
3											
0308	3	6494	Mountain whitefish	358	490	Scales		2	PIT	0A00735847	
0308	3	6495	Mountain whitefish	207	104	Scales		0			
0308	3	6496	Mountain whitefish	302	308	Scales		2	PIT	000000243128	
0308	3	6497	Mountain whitefish	206	98	Scales		0			
0308	3	6498	Mountain whitefish	321	386	Scales		2	PIT	0A00736141	
0308	3	6499	Mountain whitefish	374	516	Scales		0	PIT	000000092737	
0308	3	6500	Mountain whitefish	291	332	Scales		0	PIT	000000082354	
0308	3	6501	Mountain whitefish	322	376	Scales		2	PIT	0A00717511	
0308	3	6502	Mountain whitefish	349	480	Scales		0	PIT	000000087574	
0308	3	6503	Mountain whitefish	265	234	Scales	4	0	PIT	000000073157	
0308	3	6504	Mountain whitefish	346	440	Scales		2	FLOY		9026 YELLOW
0308	3	6505	Mountain whitefish	275	206	Scales		0	PIT	000000093184	
0308	3	6506	Mountain whitefish	313	344	Scales		2	PIT	0A00714574	
0308	3	6507	Mountain whitefish	310	342	Scales		2	PIT	000000091675	
0308	3	6508	Mountain whitefish	207	102	Scales		0			
0308	3	6509	Mountain whitefish	206	108	Scales		0			
0308	3	6510	Mountain whitefish	276	222	Scales		0	PIT	000000089227	
0308	3	6511	Mountain whitefish	246	154	Scales		0			
0308	3	6512	Mountain whitefish	213	110	Scales		0			
0308	3	6513	Mountain whitefish	265	226	Scales		0	PIT	000000090610	
0308	3	6514	Mountain whitefish	341	466	Scales	5	0	PIT	000000083688	
0308	3	6515	Mountain whitefish	207	98	Scales		0			
0308	3	6516	Mountain whitefish	281	264	Scales		0	PIT	000000093499	
0308	3	6517	Mountain whitefish	300	318	Scales		0	PIT	000000084835	
0308	3	6518	Mountain whitefish	216	86	Scales		0			
0308	3	6519	Mountain whitefish	280	272	Scales		2	FLOY		11786 WHITE
0308	3	6520	Mountain whitefish	171	56	Scales		0			
0308	3	6521	Mountain whitefish	272	252	Scales		0	PIT	000000077968	
0308	3	6522	Mountain whitefish	261	186	Scales		0	PIT	000000080982	
0308	3	6523	Mountain whitefish	327	372	Scales		0	PIT	000000082463	
0308	3	6524	Mountain whitefish	263	206	Scales	4	0	PIT	000000093602	
0308	3	6525	Mountain whitefish	204	90	Scales		0			
0308	3	6526	Mountain whitefish	169	66	Scales		0			
0308	3	6527	Mountain whitefish	241	152	Scales		0			
0308	3	6528	Mountain whitefish	326	348	Scales		0	PIT	000000086898	
0308	3	6529	Mountain whitefish	188	76	Scales		0			
0308	3	6530	Mountain whitefish	201	80	Scales		0			
0308	3	6531	Mountain whitefish	194	80	Scales		0			
0308	3	6532	Mountain whitefish	210	98	Scales		0			
0308	3	6533	Mountain whitefish	204	92	Scales		0			
0308	3	6534	Mountain whitefish	184	64	Scales		0			
0308	3	6535	Mountain whitefish	166	44	Scales		0			
0308	3	6536	Mountain whitefish	212	88	Scales		0			
0308	3	6537	Mountain whitefish	220	108	Scales		0			
0308	3	6538	Mountain whitefish	214	104	Scales		0			
0308	3	6539	Mountain whitefish	298	318	Scales	5	0	PIT	000000092052	
0308	3	6540	Mountain whitefish	274	220	Scales		0	PIT	000000079327	
0308	3	6541	Mountain whitefish	204	92	Scales		0			
0308	3	6542	Mountain whitefish	210	90	Scales		0			
0308	3	6543	Mountain whitefish	265	206	Scales		2	PIT	000000246247	
0308	3	6544	Mountain whitefish	193	74	Scales		0			
0308	3	6545	Mountain whitefish	204	86	Scales		0			
0308	3	6546	Mountain whitefish	159	44	Scales		0			
0308	3	6547	Mountain whitefish	187	66	Scales		0			
0308	3	6548	Mountain whitefish	216	100	Scales		0			
0309	3	6549	Bull trout	542	1642	Fin Ray	4	0	PIT	000000087298	
0309	3	6550	Largescale sucker	453	1360			0			
0309	3	6551	Mountain whitefish	200	86	Scales		0			
0309	3	6552	Mountain whitefish	278	240	Scales		0	PIT	000000089259	
0309	3	6553	Mountain whitefish	402	672	Scales		0	PIT	000000091664	
0309	3	6554	Mountain whitefish	296	300	Scales	5	2	PIT	000000244236	
0309	3	6555	Mountain whitefish	388	618	Scales		0	PIT	000000089927	
0309	3	6556	Mountain whitefish	205	98	Scales		0			
0309	3	6557	Mountain whitefish	295	264	Scales		0	PIT	000000090027	

Appendix C Table C1. Biological characteristics data for sampled fish, 2008 Peace River Fish Community Indexing Program.

Area and Site Label	Session	FishID	Common Name	Fork Length (mm)	Weight (gm)	Age Structure	Age	Capture Code	Tag		
									Type	Number	Colour
3											
0309	3	6558	Mountain whitefish	240	152	Scales		0			
0309	3	6559	Mountain whitefish	380	540	Scales		2	FLOY	15772	WHITE
0309	3	6560	Mountain whitefish	367	494	Scales		2	FLOY	6170	YELLOW
0309	3	6561	Arctic grayling	232	166	Scales	2	0			
0309	3	6562	Mountain whitefish	325	332	Scales		2	FLOY	5493	YELLOW
0309	3	6563	Mountain whitefish	300	298	Scales		0	PIT	:000000081467	
0309	3	6564	Mountain whitefish	290	310	Scales		0	PIT	:000000077670	
0309	3	6565	Mountain whitefish	213	108	Scales		0			
0309	3	6566	Mountain whitefish	210	98	Scales		0			
0309	3	6567	Mountain whitefish	215	104	Scales		0			
0309	3	6568	Mountain whitefish	327	478	Scales		2	FLOY	10536	YELLOW
0309	3	6569	Mountain whitefish	277	262	Scales		0	PIT	:000000083680	
0309	3	6570	Mountain whitefish	418	714	Scales		0	PIT	:000000110749	
0309	3	6571	Mountain whitefish	263	196	Scales		0	PIT	:000000073159	
0309	3	6572	Mountain whitefish	202	92	Scales		0			
0309	3	6573	Mountain whitefish	255	194	Scales		0	PIT	:000000085371	
0309	3	6574	Mountain whitefish	350	516	Scales		0	PIT	:000000088233	
0309	3	6575	Mountain whitefish	188	70	Scales		0			
0309	3	6576	Mountain whitefish	213	112	Scales		0			
0309	3	6577	Arctic grayling	254	196	Scales	2	0	PIT	:000000090315	
0309	3	6578	Mountain whitefish	401	674	Scales		0	PIT	:000000091786	
0309	3	6579	Mountain whitefish	317	348	Scales		0	PIT	:000000080738	
0309	3	6580	Mountain whitefish	310	352	Scales		0	PIT	:000000092428	
0309	3	6581	Mountain whitefish	260	240	Scales		0	PIT	:000000076967	
0309	3	6582	Mountain whitefish	405	674	Scales		0	PIT	:000000110336	
0309	3	6583	Mountain whitefish	347	446	Scales	6	0	PIT	:000000086088	
0309	3	6584	Mountain whitefish	155	40	Scales		0			
0309	3	6585	Mountain whitefish	218	108	Scales	2	0			
0309	3	6586	Mountain whitefish	216	114	Scales		0			
0309	3	6587	Mountain whitefish	378	572	Scales		0	PIT	:000000077939	
0309	3	6588	Mountain whitefish	298	310	Scales		0	PIT	:000000080394	
0309	3	6589	Mountain whitefish	323	312	Scales		2	FLOY	9123	YELLOW
0309	3	6590	Mountain whitefish	250	178	Scales		0	PIT	:000000083497	
0309	3	6591	Mountain whitefish	210	104	Scales		0			
0309	3	6592	Mountain whitefish	246	174	Scales		0			
0309	3	6593	Mountain whitefish	320	398	Scales		0	PIT	:000000085637	
0309	3	6594	Mountain whitefish	209	86	Scales	2	0			
0309	3	6595	Mountain whitefish	201	86	Scales		0			
0309	3	6596	Mountain whitefish	211	108	Scales		0			
0309	3	6597	Mountain whitefish	190	74	Scales		0			
0309	3	6598	Mountain whitefish	205	90	Scales		0			
0309	3	6599	Mountain whitefish	209	96	Scales	2	0			
0309	3	6600	Mountain whitefish	207	96	Scales		0			
0309	3	6601	Mountain whitefish	223	104	Scales		0			
0309	3	6602	Mountain whitefish	213	104	Scales		0			
0309	3	6603	Mountain whitefish	144	32	Scales		0			
0309	3	6604	Mountain whitefish	156	42	Scales		0			
0311	3	6605	Mountain whitefish	305	290	Scales	4	0	PIT	:000000083522	
0311	3	6606	Mountain whitefish	339	416	Scales		2	PIT	:000000248069	
0311	3	6607	Mountain whitefish	345	422	Scales		2	PIT	:000000238965	
0311	3	6608	Longnose sucker	327	472			0			
0311	3	6609	Longnose sucker	218	112			0			
0311	3	6610	Mountain whitefish	264	200	Scales		0	PIT	:000000085647	
0311	3	6611	Longnose sucker	385	736			0			
0311	3	6612	White sucker	389	944			0			
0311	3	6613	Mountain whitefish	415	772	Scales	8	0	PIT	:000000090574	
0311	3	6614	Bull trout	387	570	Fin Ray	4	0	PIT	:000000091790	
0311	3	6615	Mountain whitefish	218	120	Scales		0			
0311	3	6616	Mountain whitefish	195	72	Scales		0			
0311	3	6617	Longnose sucker	422	938			0			
0311	3	6618	Largescale sucker	435	1090			0			
0311	3	6619	Mountain whitefish	357	482	Scales		2	PIT	0A00710458	
0311	3	6620	Mountain whitefish	342	430	Scales		2	FLOY	15780	WHITE
0311	3	6621	Mountain whitefish	267	216	Scales		0	PIT	:000000084228	

Appendix C Table C1. Biological characteristics data for sampled fish, 2008 Peace River Fish Community Indexing Program.

Area and Site Label	Session	FishID	Common Name	Fork Length (mm)	Weight (gm)	Age Structure	Age	Capture Code	Tag		
									Type	Number	Colour
3											
0311	3	6622	Largescale sucker	235	154			0			
0311	3	6623	Mountain whitefish	332	468	Scales		0	PIT	000000078460	
0311	3	6624	Mountain whitefish	378	542	Scales		2	FLOY	14798	WHITE
0311	3	6625	Mountain whitefish	285	278	Scales		0	PIT	000000087673	
0311	3	6626	Mountain whitefish	332	404	Scales		2	PIT	0A00712400	
0311	3	6627	Mountain whitefish	316	344	Scales		0	PIT	000000086487	
0311	3	6628	Bull trout	349	460			2	PIT	000000243367	
0311	3	6629	Bull trout	236	142	Scales	2	0			
0311	3	6630	Mountain whitefish	193	80			0			
0311	3	6631	Longnose sucker	309	424			0			
0311	3	6632	Mountain whitefish	376	596	Scales		0	PIT	000000110353	
0311	3	6633	Mountain whitefish	357	440	Scales		2	PIT	0A00713468	
0311	3	6634	Mountain whitefish	288	290	Scales		0	PIT	000000090944	
0311	3	6635	Mountain whitefish	235	138	Scales		0			
0311	3	6636	Bull trout	375	508	Fin Ray	4	0	PIT	000000089336	
0311	3	6637	Mountain whitefish	390	772	Scales		0	PIT	000000089924	
0311	3	6638	Mountain whitefish	277	224	Scales		0	PIT	000000077944	
0311	3	6639	Mountain whitefish	324	342	Scales		0	PIT	000000080145	
0311	3	6640	Mountain whitefish	343	372	Scales		2	FLOY	7440	YELLOW
0311	3	6641	Mountain whitefish	295	318	Scales		2	PIT	000000242941	
0311	3	6642	Mountain whitefish	256	192	Scales		2	PIT	000000248256	
0311	3	6643	Mountain whitefish	323	362	Scales	5	0	PIT	000000090204	
0311	3	6644	Longnose sucker	378	698			0			
0311	3	6645	Largescale sucker	187	84			0			
0311	3	6646	Mountain whitefish	358	470	Scales		2	FLOY	7424	YELLOW
0311	3	6647	Mountain whitefish	277	214	Scales		0			
0311	3	6648	Mountain whitefish	321	362	Scales		2	PIT	000000240613	
0311	3	6649	Mountain whitefish	202	90	Scales		0			
0311	3	6650	Mountain whitefish	272	246	Scales		2	PIT	000000083680	
0311	3	6651	Mountain whitefish	329	386	Scales		5	PIT	000000093498	
0311	3	6652	Mountain whitefish	208	104	Scales		0			
0311	3	6653	Mountain whitefish	270	216	Scales		0	PIT	000000085489	
0311	3	6654	Bull trout	204	84	Fin Ray/Scale:	3	0			
0311	3	6655	Mountain whitefish	262	184	Scales		0	PIT	000000078426	
0311	3	6656	Mountain whitefish	327	378	Scales		2	PIT	0A00710876	
0311	3	6657	Mountain whitefish	242	154	Scales		0			
0311	3	6658	Mountain whitefish	279	222	Scales		0	PIT	000000084232	
0311	3	6659	Mountain whitefish	312	332	Scales		2	PIT	0A00710605	
0310	3	6660	Largescale sucker	457	1060			0			
0310	3	6661	Longnose sucker	305	406			0			
0310	3	6662	Longnose sucker	317	440			0			
0310	3	6663	Mountain whitefish	212	86	Scales		0			
0310	3	6664	Mountain whitefish	210	84	Scales		0			
0310	3	6665	Mountain whitefish	342	345	Scales		0	PIT	000000081111	
0310	3	6666	Mountain whitefish	359	502	Scales		2	PIT	000000243955	
0310	3	6667	Mountain whitefish	320	324	Scales		2	FLOY	16199	WHITE
0310	3	6668	Mountain whitefish	309	314	Scales		5	PIT	000000088509	
0310	3	6669	Mountain whitefish	158	38	Scales		0			
0310	3	6670	Mountain whitefish	313	346	Scales		2	PIT	0A00707631	
0310	3	6671	Mountain whitefish	373	410	Scales		2	FLOY	4523	YELLOW
0310	3	6672	Mountain whitefish	274	214	Scales		0	PIT	000000090482	
0310	3	6673	Mountain whitefish	280	230	Scales		0	PIT	000000073171	
0310	3	6674	Mountain whitefish	270	196	Scales		0	PIT	000000091669	
0310	3	6675	Mountain whitefish	278	220	Scales		4	PIT	000000085135	
0310	3	6676	Mountain whitefish	262	200	Scales		0	PIT	000000092186	
0310	3	6677	Mountain whitefish	288	260	Scales		4	PIT	000000082271	
0310	3	6678	Mountain whitefish	375	560	Scales		2	PIT	000000245608	
0310	3	6679	Mountain whitefish	217	120	Scales		0			
0310	3	6680	Mountain whitefish	276	236	Scales		0	PIT	000000090448	
0310	3	6681	Mountain whitefish	285	248	Scales		0	PIT	000000078062	
0310	3	6682	Mountain whitefish	247	162	Scales		0			
0310	3	6683	Mountain whitefish	325	410	Scales		0	PIT	000000093270	
0310	3	6684	Mountain whitefish	179	64	Scales		0			
0310	3	6685	Mountain whitefish	316	328	Scales		0	PIT	000000073251	

Appendix C Table C1. Biological characteristics data for sampled fish, 2008 Peace River Fish Community Indexing Program.

Area and Site Label	Session	FishID	Common Name	Fork Length (mm)	Weight (gm)	Age Structure	Age	Capture Code	Tag		
									Type	Number	Colour
3											
0310	3	6686	Mountain whitefish	363	492	Scales		2	FLOY		6209 YELLOW
0310	3	6687	Mountain whitefish	357	566	Scales		0	PIT	000000090478	
0310	3	6688	Mountain whitefish	291	280	Scales		0	PIT	000000078569	
0310	3	6689	Mountain whitefish	290	274	Scales		0	PIT	000000083820	
0310	3	6690	Mountain whitefish	271	228	Scales		2	PIT	000000246086	
0310	3	6691	Mountain whitefish	244	158	Scales		0			
0310	3	6692	Mountain whitefish	205	106	Scales		0			
0310	3	6693	Mountain whitefish	152	44	Scales		0			
0310	3	6694	Mountain whitefish	206	98	Scales		0			
0310	3	6695	Mountain whitefish	212	108	Scales		0			
0310	3	6696	Mountain whitefish	277	230	Scales		0	PIT	000000089928	
0310	3	6697	Mountain whitefish	306	304	Scales		2	PIT	000000245531	
0310	3	6698	Mountain whitefish	311	374	Scales	5	0	PIT	000000073205	
0310	3	6699	Mountain whitefish	300	260	Scales		0			
0310	3	6700	Mountain whitefish	222	124	Scales		2	0		
0310	3	6701	Mountain whitefish	206	96	Scales		0			
0310	3	6702	Mountain whitefish	358	514	Scales		2	PIT	000000239500	
0310	3	6703	Mountain whitefish	272	232	Scales	4	0	PIT	000000091468	
0310	3	6704	Mountain whitefish	342	420	Scales		0	PIT	000000091820	
0310	3	6705	Mountain whitefish	265	214	Scales		0	PIT	000000077249	
0310	3	6706	Mountain whitefish	260	180	Scales		0	PIT	000000247980	
0310	3	6707	Mountain whitefish	192	66	Scales		0			
0310	3	6708	Mountain whitefish	200	78	Scales		0			
0310	3	6709	Mountain whitefish	208	92	Scales		0			
0310	3	6710	Mountain whitefish	164	42	Scales		0			
0310	3	6711	Mountain whitefish	200	78	Scales		0			
0310	3	6712	Mountain whitefish	192	74	Scales		2	0		
0310	3	6713	Mountain whitefish	196	70	Scales		0			
0310	3	6714	Mountain whitefish	185	58	Scales		0			
0310	3	6715	Mountain whitefish	199	86	Scales		0			
0312	3	6716	Mountain whitefish	387	586	Scales		0	PIT	000000247403	
0312	3	6717	Mountain whitefish	367	542	Scales		0	PIT	000000247318	
0312	3	6718	Mountain whitefish	292	322	Scales		0	PIT	000000247334	
0312	3	6719	Mountain whitefish	353	540	Scales		0	PIT	000000247730	
0312	3	6720	Longnose sucker	356	630			0			
0312	3	6721	Mountain whitefish	355	498	Scales		0	PIT	000000247734	
0312	3	6722	Mountain whitefish	291	280	Scales		0	PIT	000000247597	
0312	3	6723	Mountain whitefish	284	278	Scales		0	PIT	000000247356	
0312	3	6724	Mountain whitefish	317	340	Scales		2	PIT	000000247506	
0312	3	6725	Mountain whitefish	343	440	Scales		2	FLOY		10544 YELLOW
0312	3	6726	Largescale sucker	434	1068			0			
0312	3	6727	Longnose sucker	279	262			0			
0312	3	6728	Longnose sucker	283	270			0			
0312	3	6729	Bull trout	381	610	Fin Ray	3	0	PIT	000000247834	
0312	3	6730	Longnose sucker	272	278			0			
0312	3	6731	Longnose sucker	243	180			0			
0312	3	6732	Mountain whitefish	391	722	Scales		0	PIT	000000087545	
0312	3	6733	Mountain whitefish	81	6	Scales		0			
0312	3	6734	Mountain whitefish	354	546	Scales		0	PIT	000000247089	
0312	3	6735	Largescale sucker	350	528			0			
0312	3	6736	Mountain whitefish	352	494	Scales		2	FLOY	HYDROY20601	YELLOW
0312	3	6737	Mountain whitefish	223	100	Scales		0			
0312	3	6738	Mountain whitefish	323	358	Scales		1			
0312	3	6739	Mountain whitefish	377	542	Scales		0	PIT	000000247372	
0312	3	6740	Mountain whitefish	326	386	Scales		0	PIT	000000247510	
0312	3	6741	Mountain whitefish	385	566	Scales		0	PIT	000000247483	
0312	3	6742	Longnose sucker	223	154			0			
0312	3	6743	Mountain whitefish	335	338	Scales		2	PIT	0A00736134	
0312	3	6744	Mountain whitefish	284	314	Scales		0	PIT	000000247357	
0312	3	6745	Mountain whitefish	308	322	Scales		0	PIT	000000247858	
0312	3	6746	Northern pikeminnow	234	148			0			
0312	3	6747	Mountain whitefish	293	266	Scales	5	0	PIT	000000247752	
0312	3	6748	Mountain whitefish	274	210	Scales		2	PIT	000000093184	
0312	3	6749	Mountain whitefish	334	474	Scales		0	PIT	000000247735	

Appendix C Table C1. Biological characteristics data for sampled fish, 2008 Peace River Fish Community Indexing Program.

Area and Site Label	Session	FishID	Common Name	Fork Length (mm)	Weight (gm)	Age Structure	Age	Capture Code	Tag		
									Type	Number	Colour
3											
0302	4	8108	Mountain whitefish	260	216	Scales		0			
0302	4	8109	Mountain whitefish	323	370	Scales		2	FLOY	12413	WHITE
0302	4	8110	Mountain whitefish	299	292	Scales		0	PIT	000000090587	
0302	4	8111	Mountain whitefish	307	298	Scales		2	PIT	0000000243458	
0302	4	8112	Mountain whitefish	284	240	Scales		2	PIT	0000000239173	
0302	4	8113	Mountain whitefish	327	314	Scales		2	PIT	0A00711330	
0302	4	8114	Mountain whitefish	344	444	Scales		2	FLOY	10313	YELLOW
0302	4	8115	Mountain whitefish	210	104	Scales		0			
0302	4	8116	Mountain whitefish	205	86	Scales		0			
0302	4	8117	Mountain whitefish	163	46	Scales		0			
0302	4	8118	Mountain whitefish	210	104	Scales		0			
0302	4	8119	Mountain whitefish	217	118	Scales		0			
0302	4	8120	Mountain whitefish	197	74	Scales		0			
0302	4	8121	Mountain whitefish	219	114	Scales		0			
0302	4	8122	Mountain whitefish	157	40	Scales		0			
0302	4	8123	Mountain whitefish	268	186	Scales	3	0	PIT	000000091067	
0302	4	8124	Mountain whitefish	298	286	Scales		0	PIT	000000078109	
0302	4	8125	Rainbow trout	174	70			0			
0302	4	8126	Mountain whitefish	262	180	Scales		0	PIT	000000109857	
0302	4	8127	Mountain whitefish	267	210	Scales		0	PIT	000000073133	
0302	4	8128	Mountain whitefish	226	138	Scales		0			
0302	4	8129	Mountain whitefish	270	222	Scales		2	PIT	000000093532	
0302	4	8130	Mountain whitefish	205	92	Scales	2	0			
0302	4	8131	Mountain whitefish	206	98	Scales		0			
0302	4	8132	Mountain whitefish	277	240	Scales	4	0	PIT	000000083888	
0302	4	8133	Mountain whitefish	174	52	Scales		0			
0302	4	8134	Mountain whitefish	219	118	Scales		0			
0302	4	8135	Mountain whitefish	201	88	Scales		0			
0302	4	8136	Mountain whitefish	284	236	Scales		0	PIT	000000087998	
0302	4	8137	Mountain whitefish	268	196	Scales		0	PIT	000000089625	
0302	4	8138	Mountain whitefish	258	192	Scales		0	PIT	000000082652	
0302	4	8139	Mountain whitefish	220	106	Scales		0			
0302	4	8140	Mountain whitefish	192	72	Scales		0			
0302	4	8141	Mountain whitefish	213	100	Scales		0			
0302	4	8142	Mountain whitefish	211	106	Scales		0			
0302	4	8143	Largescale sucker	125	24			0			
0302	4	8144	Mountain whitefish	267	210	Scales	3	0	PIT	000000079215	
0302	4	8145	Mountain whitefish	314	366	Scales		0	PIT	000000086012	
0302	4	8146	Mountain whitefish	299	286	Scales		2	PIT	0000000246012	
0302	4	8147	Mountain whitefish	294	258	Scales		0	PIT	000000076984	
0302	4	8148	Mountain whitefish	277	244	Scales		2	PIT	000000079459	
0302	4	8149	Mountain whitefish	354	504	Scales		2	PIT	4D00020116	
0302	4	8150	Mountain whitefish	208	98	Scales		0			
0302	4	8151	Mountain whitefish	213	100	Scales		0			
0302	4	8152	Mountain whitefish	174	54	Scales		0			
0302	4	8153	Mountain whitefish	275	236	Scales		2	PIT	000000244070	
0302	4	8154	Mountain whitefish	219	114	Scales		2			
0302	4	8155	Mountain whitefish	255	194	Scales		0	PIT	000000085055	
0302	4	8156	Mountain whitefish	262	184	Scales		0	PIT	000000080749	
0302	4	8157	Rainbow trout	152	32			0			
0302	4	8158	Mountain whitefish	277	254	Scales	3	1			
0302	4	8159	Mountain whitefish	345	476	Scales		2	PIT	0A00705879	
0302	4	8160	Mountain whitefish	290	260	Scales		0	PIT	000000091791	
0302	4	8161	Mountain whitefish	289	294	Scales		0	PIT	000000083727	
0302	4	8162	Mountain whitefish	355	396	Scales		2	FLOY	15553	WHITE
0302	4	8163	Mountain whitefish	223	128	Scales		0			
0302	4	8164	Mountain whitefish	407	688	Scales		2	PIT	000000076976	
0302	4	8165	Mountain whitefish	277	266	Scales		2	PIT	000000243652	
0302	4	8166	Mountain whitefish	270	232	Scales	3	0	PIT	000000086094	
0302	4	8167	Mountain whitefish	278	260	Scales		0	PIT	000000083678	
0302	4	8168	Mountain whitefish	257	206	Scales		0	PIT	000000078078	
0302	4	8169	Mountain whitefish	211	100	Scales		0			
0302	4	8170	Mountain whitefish	273	222	Scales		0	PIT	000000087554	
0302	4	8171	Mountain whitefish	270	208	Scales		0	PIT	000000088236	

Appendix C Table C1. Biological characteristics data for sampled fish, 2008 Peace River Fish Community Indexing Program.

Area and Site Label	Session	FishID	Common Name	Fork Length (mm)	Weight (gm)	Age Structure	Age	Capture Code	Tag		
									Type	Number	Colour
3											
	0302	4	8172	Mountain whitefish	208	90	Scales	0			
	0302	4	8173	Mountain whitefish	328	378	Scales	0	PIT	000000083675	
	0302	4	8174	Mountain whitefish	265	236	Scales	0	PIT	000000087171	
	0302	4	8175	Mountain whitefish	290	252	Scales	0	PIT	000000109965	
	0302	4	8176	Mountain whitefish	257	236	Scales	0	PIT	000000078079	
	0302	4	8177	Mountain whitefish	213	100	Scales	0			
	0302	4	8178	Mountain whitefish	302	314	Scales	0	PIT	000000091096	
	0302	4	8179	Mountain whitefish	285	258	Scales	5	0	PIT	000000085138
	0302	4	8180	Mountain whitefish	270	240	Scales	0	PIT	000000086760	
	0302	4	8181	Mountain whitefish	208	98	Scales	0			
	0302	4	8182	Mountain whitefish	270	220	Scales	0	PIT	000000093219	
	0302	4	8183	Mountain whitefish	229	126	Scales	0			
	0302	4	8184	Mountain whitefish	280	292	Scales	0	PIT	000000080996	
	0302	4	8185	Mountain whitefish	160	54	Scales	1	0		
	0302	4	8186	Mountain whitefish	199	84	Scales	0			
	0302	4	8187	Mountain whitefish	305	350	Scales	0	PIT	000000080863	
	0302	4	8188	Mountain whitefish	282	236	Scales	0	PIT	000000110916	
	0302	4	8189	Mountain whitefish	250	162	Scales	0	PIT	000000078234	
	0302	4	8190	Mountain whitefish	215	104	Scales	0			
	0302	4	8191	Mountain whitefish	303	322	Scales	0	PIT	000000080002	
	0302	4	8192	Mountain whitefish	208	104	Scales	2	0		
	0302	4	8193	Rainbow trout	130	26		0			
	0302	4	8194	Mountain whitefish	292	288	Scales	0	PIT	000000078334	
	0302	4	8195	Mountain whitefish	193	74	Scales	0			
	0302	4	8196	Mountain whitefish	447	1046	Scales	0	PIT	000000078200	
	0301	4	8197	Mountain whitefish	444	1038	Scales	2	PIT	000000078200	
	0301	4	8198	Mountain whitefish	329	410	Scales	2	PIT	000000109625	
	0301	4	8199	Mountain whitefish	370	468	Scales	0	PIT	000000085022	
	0301	4	8200	Mountain whitefish	291	296	Scales	2	PIT	000000238617	
	0301	4	8201	Mountain whitefish	265	216	Scales	0	PIT	000000080266	
	0301	4	8202	Mountain whitefish	217	114	Scales	0			
	0301	4	8203	Mountain whitefish	252	186	Scales	0	PIT	000000081460	
	0301	4	8204	Mountain whitefish	217	108	Scales	0			
	0301	4	8205	Mountain whitefish	207	108	Scales	0			
	0301	4	8206	Mountain whitefish	265	244	Scales	2	PIT	000000087171	
	0301	4	8207	Mountain whitefish	370	536	Scales	2	PIT	000000088518	
	0301	4	8208	Mountain whitefish	310		Scales	2	PIT	000000245221	
	0301	4	8209	Mountain whitefish	273	220	Scales	2	PIT	000000087554	
	0301	4	8210	Mountain whitefish	262	206	Scales	0	PIT	000000091229	
	0301	4	8211	Mountain whitefish	206	108	Scales	0			
	0301	4	8212	Mountain whitefish	200	92	Scales	0			
	0301	4	8213	Mountain whitefish	322	382	Scales	2	PIT	000000091215	
	0301	4	8214	Mountain whitefish	204	104	Scales	0			
	0301	4	8215	Mountain whitefish	196	94	Scales	0			
	0301	4	8216	Mountain whitefish	200	90	Scales	0			
	0301	4	8217	Mountain whitefish	314	342	Scales	2	PIT	000000083972	
	0301	4	8218	Mountain whitefish	285	270	Scales	4	0	PIT	000000092424
	0301	4	8219	Mountain whitefish	267	216	Scales	2	PIT	000000247370	
	0301	4	8220	Mountain whitefish	268	226	Scales	2	PIT	000000241817	
	0301	4	8221	Mountain whitefish	271	214	Scales	2	PIT	000000248288	
	0301	4	8222	Mountain whitefish	260	180	Scales	0	PIT	000000091346	
	0301	4	8223	Mountain whitefish	196	84	Scales	0			
	0301	4	8224	Mountain whitefish	262	220	Scales	0	PIT	000000085406	
	0301	4	8225	Mountain whitefish	215	114	Scales	0			
	0301	4	8226	Mountain whitefish	213	116	Scales	0			
	0301	4	8227	Mountain whitefish	213	114	Scales	0			
	0301	4	8228	Mountain whitefish	195	90	Scales	0			
	0301	4	8229	Mountain whitefish	323	372	Scales	2	FLOY	12413	WHITE
	0301	4	8230	Mountain whitefish	234	146	Scales	0			
	0301	4	8231	Mountain whitefish	146	36	Scales	0			
	0301	4	8232	Rainbow trout	145	38		0			
	0303	4	8233	Walleye	379	760		0			
	0303	4	8234	Longnose sucker	420	984		0			
	0303	4	8235	Longnose sucker	362	594		0			

Appendix C Table C1. Biological characteristics data for sampled fish, 2008 Peace River Fish Community Indexing Program.

Area and Site Label	Session	FishID	Common Name	Fork Length (mm)	Weight (gm)	Age Structure	Age	Capture Code	Tag		
									Type	Number	Colour
3											
	0303	4	8236	Longnose sucker	377	474		0			
	0303	4	8237	Longnose sucker	417	1032		0			
	0303	4	8238	Longnose sucker	398	862		0			
	0303	4	8239	Longnose sucker	400	976		0			
	0303	4	8240	Longnose sucker	391	792		0			
	0303	4	8241	Longnose sucker	376	732		0			
	0303	4	8242	Longnose sucker	366	616		0			
	0303	4	8243	Mountain whitefish	377	590	Scales	0	PIT		:000000080857
	0303	4	8244	Mountain whitefish	305	328	Scales	0	PIT		:000000092053
	0303	4	8245	Mountain whitefish	290	264	Scales	2	PIT		:000000238290
	0303	4	8246	Mountain whitefish	387	598	Scales	2	PIT		4D000025316
	0303	4	8247	Mountain whitefish	364	502	Scales	7	0	PIT	:000000112721
	0303	4	8248	Mountain whitefish	375	550	Scales	7	0	PIT	:000000085640
	0303	4	8249	Mountain whitefish	276	230	Scales	4	0	PIT	:000000088261
	0303	4	8250	Mountain whitefish	334	454	Scales	0	PIT		:000000109726
	0303	4	8251	Mountain whitefish	292	254	Scales	2	PIT		:000000077240
	0303	4	8252	Mountain whitefish	266	220	Scales	0	PIT		:000000081237
	0303	4	8253	Mountain whitefish	320	372	Scales	0	PIT		:000000088995
	0303	4	8254	Mountain whitefish	163	50	Scales	0			
	0303	4	8255	Mountain whitefish	339	464	Scales	0	PIT		:000000078355
	0303	4	8256	Mountain whitefish	297	312	Scales	2	FLOY		10357 YELLOW
	0303	4	8257	Mountain whitefish	360	538	Scales	2	PIT		0A00725970
	0303	4	8258	Mountain whitefish	280	260	Scales	0	PIT		:000000081699
	0303	4	8259	Longnose sucker	388	814		0			
	0303	4	8260	Longnose sucker	404	880		0			
	0303	4	8261	Longnose sucker	330	452		0			
	0303	4	8262	Mountain whitefish	192	80	Scales	0			
	0303	4	8263	Mountain whitefish	286	272	Scales	2	PIT		:000000084825
	0303	4	8264	Mountain whitefish	324	352	Scales	0	PIT		:000000086458
	0303	4	8265	Mountain whitefish	365	468	Scales	0	PIT		:000000092034
	0303	4	8266	Mountain whitefish	298	334	Scales	0	PIT		:000000081708
	0303	4	8267	Mountain whitefish	304	318	Scales	0	PIT		:000000082922
	0303	4	8268	Mountain whitefish	359	492	Scales	2	PIT		4D000030679
	0303	4	8269	Mountain whitefish	319	374	Scales	2	PIT		:000000244539
	0303	4	8270	Mountain whitefish	342	388	Scales	2	FLOY		5961 YELLOW
	0303	4	8271	Mountain whitefish	240	166	Scales	0			
	0303	4	8272	Arctic grayling	192	84	Scales	1	0		
	0303	4	8273	Mountain whitefish	211	104	Scales	0			
	0303	4	8274	Mountain whitefish	200	86	Scales	0			
	0303	4	8275	Mountain whitefish	270	218	Scales	3	0	PIT	:000000111193
	0303	4	8276	Mountain whitefish	311	318	Scales	0	PIT		:000000087959
	0303	4	8277	Mountain whitefish	289	264	Scales	0	PIT		:000000083668
	0303	4	8278	Longnose sucker	269	244		0			
	0303	4	8279	Mountain whitefish	260	194	Scales	0	PIT		:000000077676
	0303	4	8280	Mountain whitefish	257	178	Scales	0	PIT		:000000092715
	0303	4	8281	Mountain whitefish	265	220	Scales	0	PIT		:000000092502
	0303	4	8282	Mountain whitefish	214	108	Scales	0			
	0303	4	8283	Mountain whitefish	193	80	Scales	2	0		
	0303	4	8284	Mountain whitefish	206	88	Scales	0			
	0303	4	8285	Mountain whitefish	199	92	Scales	0			
	0303	4	8286	Mountain whitefish	162	44	Scales	0			
	0303	4	8287	Mountain whitefish	342	428	Scales	2	PIT		:000000245064
	0303	4	8288	Mountain whitefish	275	286	Scales	0	PIT		:000000085638
	0303	4	8289	Mountain whitefish	265	236	Scales	0	PIT		:000000087851
	0303	4	8290	Mountain whitefish	252	174	Scales	3	0	PIT	:000000073107
	0303	4	8291	Mountain whitefish	200	78	Scales	0			
	0303	4	8292	Mountain whitefish	331	426	Scales	2	PIT		:000000245036
	0303	4	8293	Mountain whitefish	214	110	Scales	0			
	0303	4	8294	Mountain whitefish	214	118	Scales	0			
	0303	4	8295	Mountain whitefish	352	466	Scales	0	PIT		:000000079037
	0303	4	8296	Mountain whitefish	338	436	Scales	2	PIT		4D00027436
	0303	4	8297	Mountain whitefish	287	216	Scales	0	PIT		:000000088115
	0303	4	8298	Mountain whitefish	290	334	Scales	0	PIT		:000000077361
	0303	4	8299	Mountain whitefish	265	210	Scales	0	PIT		:000000090740

Appendix C Table C1. Biological characteristics data for sampled fish, 2008 Peace River Fish Community Indexing Program.

Area and Site Label	Session	FishID	Common Name	Fork Length (mm)	Weight (gm)	Age Structure	Age	Capture Code	Tag		
									Type	Number	Colour
3											
	0303	4	8300	Mountain whitefish	287	232	Scales	2	PIT	:000000073153	
	0303	4	8301	Longnose sucker	182	72		0			
	0303	4	8302	Mountain whitefish	275	228	Scales	2	PIT	:000000091706	
	0303	4	8303	Mountain whitefish	290	262	Scales	2	PIT	:000000242282	
	0303	4	8304	Mountain whitefish	313	354	Scales	2	PIT	0A00717522	
	0303	4	8305	Mountain whitefish	330	402	Scales	0	PIT	:000000089027	
	0303	4	8306	Mountain whitefish	275	250	Scales	0	PIT	:000000080877	
	0303	4	8307	Mountain whitefish	217	114	Scales	0			
	0303	4	8308	Mountain whitefish	381	600	Scales	0	PIT	:000000084235	
	0303	4	8309	Mountain whitefish	337	412	Scales	2	FLOY	13585	WHITE
	0303	4	8310	Mountain whitefish	345	440	Scales	0	PIT	:000000093434	
	0303	4	8311	Mountain whitefish	304	308	Scales	2	PIT	:000000246444	
	0303	4	8312	Mountain whitefish	280	240	Scales	0	PIT	:000000090206	
	0303	4	8313	Mountain whitefish	295	332	Scales	0	PIT	:000000084288	
	0303	4	8314	Mountain whitefish	186	66	Scales	0			
	0303	4	8315	Mountain whitefish	321	374	Scales	0	PIT	:000000088260	
	0303	4	8316	Mountain whitefish	203	90	Scales	0			
	0303	4	8317	Mountain whitefish	133	22	Scales	0			
	0304	4	8318	Largescale sucker	565	2148		0			
	0304	4	8319	Longnose sucker	383	808		0			
	0304	4	8320	Longnose sucker	418	1012		0			
	0304	4	8321	Arctic grayling	272	264	Scales	2	0	PIT	:000000089112
	0304	4	8322	Mountain whitefish	374	398	Scales	0	PIT	:000000110508	
	0304	4	8323	Walleye	368	702		0			
	0304	4	8324	Mountain whitefish	380	530	Scales	0	PIT	:000000092416	
	0304	4	8325	Mountain whitefish	310	352	Scales	0	PIT	:000000092064	
	0304	4	8326	Mountain whitefish	313	344	Scales	0	PIT	:000000090599	
	0304	4	8327	Mountain whitefish	270	202	Scales	0	PIT	:000000110332	
	0304	4	8328	Arctic grayling	268	242	Scales	0	PIT	:000000080989	
	0304	4	8329	Mountain whitefish	364	470	Scales	2	FLOY	8893	YELLOW
	0304	4	8330	Mountain whitefish	342	430	Scales	6	0	PIT	:000000091673
	0304	4	8331	Mountain whitefish	344	400	Scales	2	PIT	4D00014342	
	0304	4	8332	Mountain whitefish	284	282	Scales	0	PIT	:000000081225	
	0304	4	8333	Mountain whitefish	210	106	Scales	0			
	0304	4	8334	Mountain whitefish	233	134	Scales	0			
	0304	4	8335	Mountain whitefish	288	294	Scales	0	PIT	:000000076550	
	0304	4	8336	Mountain whitefish	255	202	Scales	0	PIT	:000000084521	
	0304	4	8337	Mountain whitefish	168	46	Scales	0			
	0304	4	8338	Mountain whitefish	291	250	Scales	0	PIT	:000000084151	
	0304	4	8339	Mountain whitefish	340	370	Scales	7	0	PIT	:000000092036
	0304	4	8340	Mountain whitefish	248	178	Scales	3	0		
	0304	4	8341	Mountain whitefish	235	142	Scales	0			
	0304	4	8342	Mountain whitefish	263	196	Scales	0	PIT	:000000090733	
	0304	4	8343	Mountain whitefish	251	166	Scales	0	PIT	:000000080127	
	0304	4	8344	Mountain whitefish	338	376	Scales	2	FLOY	16060	WHITE
	0304	4	8345	Mountain whitefish	266	212	Scales	0	PIT	:000000083671	
	0304	4	8346	Mountain whitefish	294	284	Scales	0	PIT	:000000092062	
	0304	4	8347	Mountain whitefish	215	110	Scales	0			
	0304	4	8348	Mountain whitefish	273	220	Scales	0	PIT	:000000085407	
	0304	4	8349	Mountain whitefish	223	136	Scales	0			
	0304	4	8350	Mountain whitefish	275	228	Scales	0	PIT	:000000092937	
	0304	4	8351	Mountain whitefish	333	384	Scales	0	PIT	:000000109980	
	0304	4	8352	Mountain whitefish	309	294	Scales	2	PIT	:000000240671	
	0304	4	8353	Mountain whitefish	389	478	Scales	0	PIT	:000000080134	
	0304	4	8354	Mountain whitefish	330	352	Scales	2	PIT	:000000239705	
	0304	4	8355	Mountain whitefish	290	288	Scales	0	PIT	:000000077514	
	0304	4	8356	Bull trout	543	1840	Fin Ray	4	0	PIT	:000000110882
	0305	4	8357	Longnose sucker	323	424		0			
	0305	4	8358	Longnose sucker	356	662		0			
	0305	4	8359	Longnose sucker	319	420		0			
	0305	4	8360	Longnose sucker	334	444		0			
	0305	4	8361	Longnose sucker	315	382		0			
	0305	4	8362	Longnose sucker	352	532		0			
	0305	4	8363	Longnose sucker	385	696		0			

Appendix C Table C1. Biological characteristics data for sampled fish, 2008 Peace River Fish Community Indexing Program.

Area and Site Label	Session	FishID	Common Name	Fork Length (mm)	Weight (gm)	Age Structure	Age	Capture Code	Tag Type	Tag Number	Colour
3											
		0305	Longnose sucker	286	298			0			
		0305	Longnose sucker	200	98			0			
		0305	Longnose sucker	293	292			0			
		0305	Longnose sucker	338	474			0			
		0305	White sucker	348	630			0			
		0305	Longnose sucker	253	200			0			
		0305	Longnose sucker	393	892			0			
		0305	Longnose sucker	410	992			0			
		0305	Mountain whitefish	380	520	Scales		0	PIT	:000000091905	
		0305	Mountain whitefish	351	499	Scales		0	PIT	:000000090825	
		0305	Mountain whitefish	311	352	Scales	5	2	PIT	:000000244371	
		0305	Mountain whitefish	375	612	Scales		0	PIT	:000000111207	
		0305	Mountain whitefish	330	400	Scales		2	PIT	:000000239772	
		0305	Mountain whitefish	291	276	Scales		2	PIT	:000000244654	
		0305	Longnose sucker	202	108			0			
		0305	Mountain whitefish	282	248	Scales		0	PIT	:000000091091	
		0305	Mountain whitefish	318	362	Scales		0			
		0305	Mountain whitefish	286	294	Scales		0	PIT	:000000078215	
		0305	Mountain whitefish	316	350	Scales		2	PIT	:000000079321	
		0305	Mountain whitefish	301	314	Scales		2	PIT	:000000240777	
		0305	Mountain whitefish	302	328	Scales		0	PIT	:000000079043	
		0305	Mountain whitefish	306	372	Scales		0	PIT	:000000093372	
		0305	Mountain whitefish	292	288	Scales		0	PIT	:000000085977	
		0305	Mountain whitefish	364	450	Scales		0	PIT	:000000082179	
		0305	Mountain whitefish	367	528	Scales		2	FLOY	15670	WHITE
		0305	Mountain whitefish	282	234	Scales		0	PIT	:000000082061	
		0305	Mountain whitefish	196	80	Scales		0			
		0305	Mountain whitefish	314	408	Scales		0	PIT	:000000088268	
		0305	Mountain whitefish	330	352	Scales		0	PIT	:000000082450	
		0305	Mountain whitefish	321	352	Scales	5	0	PIT	:000000088371	
		0305	Mountain whitefish	270	202	Scales		0	PIT	:000000084062	
		0305	Mountain whitefish	293	274	Scales		0	PIT	:000000090852	
		0305	Mountain whitefish	195	76	Scales		0			
		0305	Mountain whitefish	351	498	Scales	6	0	PIT	:000000088514	
		0305	Mountain whitefish	346	372	Scales		2	FLOY	9007	YELLOW
		0305	Mountain whitefish	341	398	Scales		2	FLOY	5962	YELLOW
		0305	Mountain whitefish	307	338	Scales	5	0	PIT	:000000078659	
		0305	Mountain whitefish	192	70	Scales		2			
		0305	Mountain whitefish	295	304	Scales	4	0	PIT	:000000077512	
		0305	Mountain whitefish	250	180	Scales		0	PIT	:000000111623	
		0305	Mountain whitefish	286	248	Scales		2	PIT	:000000243405	
		0305	Mountain whitefish	210	108	Scales		0			
		0305	Mountain whitefish	252	192	Scales		0	PIT	:000000110366	
		0305	Mountain whitefish	313	352	Scales		0	PIT	:000000085289	
		0305	Mountain whitefish	352	430	Scales		2	PIT	0A00735130	
		0305	Mountain whitefish	212	106	Scales		0			
		0305	Mountain whitefish	263	216	Scales		0	PIT	:000000081116	
		0305	Mountain whitefish	195	82	Scales		0			
		0305	Mountain whitefish	331	338	Scales		2	FLOY	5936	YELLOW
		0305	Longnose sucker	226	156			0			
		0305	Mountain whitefish	191	78	Scales		0			
		0305	Mountain whitefish	310	352	Scales		2	PIT	:000000092064	
		0305	Mountain whitefish	359	424	Scales		2	FLOY	10385	YELLOW
		0305	Mountain whitefish	344	502	Scales		0	PIT	:000000073105	
		0305	Mountain whitefish	324	440	Scales		0	PIT	:000000092187	
		0305	Mountain whitefish	326	394	Scales		0	PIT	:000000093358	
		0305	Mountain whitefish	317	326	Scales		2	FLOY	6225	YELLOW
		0305	Mountain whitefish	344	440	Scales		2	PIT	4D00017456	
		0305	Mountain whitefish	210	110	Scales		0			
		0305	Mountain whitefish	282	280	Scales	4	2	PIT	:000000244836	
		0305	Mountain whitefish	276	238	Scales	4	0	PIT	:000000084604	
		0305	Mountain whitefish	286	284	Scales		0	PIT	:000000085613	
		0305	Mountain whitefish	319	342	Scales		2	PIT	:000000238668	
		0305	Mountain whitefish	316	328	Scales	4	0	PIT	:000000086493	

Appendix C Table C1. Biological characteristics data for sampled fish, 2008 Peace River Fish Community Indexing Program.

Area and Site Label	Session	FishID	Common Name	Fork Length (mm)	Weight (gm)	Age Structure	Age	Capture Code	Tag		
									Type	Number	Colour
3											
0305	4	8428	Mountain whitefish	247	152	Scales		0			
0305	4	8429	Mountain whitefish	336	450	Scales		0	PIT	000000090848	
0305	4	8430	Mountain whitefish	295	278	Scales	6	0	PIT	000000089109	
0305	4	8431	Mountain whitefish	308	364	Scales		0	PIT	000000084685	
0305	4	8432	Mountain whitefish	300	248	Scales		0	PIT	000000087258	
0305	4	8433	Mountain whitefish	367	526	Scales		0	PIT	000000086627	
0305	4	8434	Mountain whitefish	245	158	Scales		0			
0305	4	8435	Mountain whitefish	294	268	Scales		0	PIT	000000073164	
0305	4	8436	Mountain whitefish	316	336	Scales		0	PIT	000000078437	
0305	4	8437	Mountain whitefish	259	186	Scales		0	PIT	000000090044	
0305	4	8438	Mountain whitefish	243	158	Scales		0			
0305	4	8439	Mountain whitefish	283	246	Scales		0	PIT	000000082168	
0305	4	8440	Mountain whitefish	357	512	Scales		0	PIT	000000077390	
0305	4	8441	Mountain whitefish	282	254	Scales		0	PIT	000000073115	
0305	4	8442	Mountain whitefish	197	82	Scales		0			
0305	4	8443	Mountain whitefish	383	608	Scales		2	PIT	000000079041	
0305	4	8444	Mountain whitefish	355	486	Scales		2	PIT	0A00713707	
0305	4	8445	Mountain whitefish	266	206	Scales		0	PIT	000000089143	
0305	4	8446	Mountain whitefish	371	508	Scales		2	PIT	000000246362	
0305	4	8447	Mountain whitefish	243	148	Scales		0			
0305	4	8448	Mountain whitefish	285	274	Scales		0	PIT	000000086588	
0305	4	8449	Longnose sucker	177	76			0			
0305	4	8450	Bull trout	320	320			2	PIT	000000247490	
0305	4	8451	Bull trout	237	142	fin Ray/Scale:	3	0			
0305	4	8452	Mountain whitefish	321	352	Scales		0	PIT	000000091558	
0305	4	8453	Longnose sucker	224	136			0			
0305	4	8454	Mountain whitefish	466	1180	Scales		2	PIT	0A00714150	
0305	4	8455	Mountain whitefish	331	394	Scales		0	PIT	000000083729	
0305	4	8456	Mountain whitefish	285	230	Scales		0	PIT	000000089506	
0305	4	8457	Mountain whitefish	259	192	Scales		0	PIT	000000078672	
0305	4	8458	Mountain whitefish	315	342	Scales		0	PIT	000000110756	
0305	4	8459	Mountain whitefish	208	98	Scales		0			
0305	4	8460	Mountain whitefish	200	92	Scales		0			
0305	4	8461	Mountain whitefish	314	344	Scales		2	FLOY	16451	WHITE
0305	4	8462	Arctic grayling	277	228	Scales	2	0	PIT	000000073268	
0305	4	8463	Largescale sucker	278	282			0			
0305	4	8464	Mountain whitefish	324	382	Scales		0	PIT	000000084136	
0305	4	8465	Mountain whitefish	194	82	Scales		0			
0305	4	8466	Mountain whitefish	210	102	Scales		0			
0305	4	8467	Mountain whitefish	214	116	Scales		0			
0305	4	8468	Arctic grayling	179	74	Scales	1	0			
0305	4	8469	Mountain whitefish	215	114	Scales		0			
0305	4	8470	Mountain whitefish	275	224	Scales		2	PIT	0A00725917	
0305	4	8471	Mountain whitefish	215	112	Scales		0			
0305	4	8472	Largescale sucker	531	1892			0			
0305	4	8473	Longnose sucker	327	430			0			
0305	4	8474	Mountain whitefish	315	328	Scales		0	PIT	000000083886	
0305	4	8475	Longnose sucker	366	626			0			
0305	4	8476	Mountain whitefish	344	424	Scales	5	5	PIT	000000073193	
0305	4	8477	Longnose sucker	313	396			0			
0305	4	8478	Rainbow trout	166	68			0			
0305	4	8479	Mountain whitefish	333	376	Scales		0	PIT	000000082919	
0305	4	8480	Mountain whitefish	382	598	Scales		2	FLOY	6114	YELLOW
0305	4	8481	Mountain whitefish	354	372	Scales		0	PIT	000000091230	
0305	4	8482	Mountain whitefish	376	600	Scales		0	PIT	000000073253	
0305	4	8483	Mountain whitefish	360	430	Scales		0	PIT	000000078206	
0305	4	8484	Rainbow trout	140	40			0			
0305	4	8485	Mountain whitefish	201	98	Scales		0			
0305	4	8486	Mountain whitefish	308	308	Scales		0	PIT	000000088131	
0305	4	8487	Mountain whitefish	406	710	Scales		0	PIT	000000080256	
0305	4	8488	Mountain whitefish	281	284	Scales		0	PIT	000000086633	
0305	4	8489	Mountain whitefish	329	374	Scales	5	0	PIT	000000082065	
0305	4	8490	Mountain whitefish	292	298	Scales		0	PIT	000000082367	
0305	4	8491	Mountain whitefish	245	192	Scales		0			

Appendix C Table C1. Biological characteristics data for sampled fish, 2008 Peace River Fish Community Indexing Program.

Area and Site Label	Session	FishID	Common Name	Fork Length (mm)	Weight (gm)	Age Structure	Age	Capture Code	Tag		
									Type	Number	Colour
3											
	0305	4	8492	Mountain whitefish	194	86	Scales	0			
	0305	4	8493	Largescale sucker	180	68		0			
	0305	4	8494	Mountain whitefish	405	756	Scales	0	PIT		:000000086218
	0305	4	8495	Mountain whitefish	267	210	Scales	0	PIT		:000000086249
	0305	4	8496	Mountain whitefish	241	176	Scales	0			
	0305	4	8497	Mountain whitefish	272	232	Scales	0	PIT		:000000089348
	0305	4	8498	Longnose sucker	273	278		0			
	0314	4	8499	Longnose sucker	441	1126		0			
	0314	4	8500	Mountain whitefish	340	442	Scales	2	PIT		:000000076818
	0314	4	8501	Mountain whitefish	382	640	Scales	2	FLOY	12503	WHITE
	0314	4	8502	Mountain whitefish	249	186	Scales	0			
	0314	4	8503	Mountain whitefish	228	126	Scales	0			
	0314	4	8504	Mountain whitefish	321		Scales	0	PIT		:000000085389
	0314	4	8505	Mountain whitefish	342	534	Scales	0	PIT		:000000079442
	0314	4	8506	Mountain whitefish	185	64	Scales	0			
	0314	4	8507	Mountain whitefish	451	980	Scales	2	FLOY	15698	WHITE
	0314	4	8508	Mountain whitefish	289	300	Scales	0			
	0314	4	8509	Mountain whitefish	259	208	Scales	0	PIT		:000000078347
	0314	4	8510	Mountain whitefish	300	306	Scales	4	2	PIT	:000000238328
	0314	4	8511	Mountain whitefish	246	174	Scales	0			
	0314	4	8512	Mountain whitefish	211	106	Scales	0			
	0314	4	8513	Longnose sucker	409	958		0			
	0314	4	8514	Mountain whitefish	325	410	Scales	2	PIT		:000000238846
	0314	4	8515	Mountain whitefish	228	138	Scales	0			
	0314	4	8516	Mountain whitefish	290	258	Scales	0	PIT		:000000088993
	0314	4	8517	Mountain whitefish	283	262	Scales	0	PIT		:000000092420
	0314	4	8518	Mountain whitefish	306	312	Scales	0	PIT		:000000081716
	0314	4	8519	Mountain whitefish	327	374	Scales	2	FLOY	8823	YELLOW
	0314	4	8520	Mountain whitefish	254	174	Scales	0	PIT		:000000082369
	0314	4	8521	Mountain whitefish	305	348	Scales	2	PIT		:000000238671
	0314	4	8522	Mountain whitefish	225	124	Scales	0			
	0314	4	8523	Mountain whitefish	208	98	Scales	0			
	0314	4	8524	Rainbow trout	195	84		0			
	0314	4	8525	Mountain whitefish	255	174	Scales	0	PIT		:000000087718
	0314	4	8526	Mountain whitefish	252	166	Scales	0	PIT		:000000082744
	0314	4	8527	Mountain whitefish	185	70	Scales	0			
	0314	4	8528	Longnose sucker	367	700		0			
	0314	4	8529	Longnose sucker	364	720		0			
	0314	4	8530	Mountain whitefish	201	82	Scales	0			
	0314	4	8531	Mountain whitefish	312	362	Scales	0	PIT		:000000086363
	0314	4	8532	Mountain whitefish	304	296	Scales	0	PIT		:000000088411
	0314	4	8533	Mountain whitefish	298	318	Scales	0	PIT		:000000110224
	0314	4	8534	Mountain whitefish	220	140	Scales	0			
	0314	4	8535	Mountain whitefish	255	190	Scales	3	0	PIT	:000000078776
	0314	4	8536	Mountain whitefish	251	176	Scales	0	PIT		:000000088896
	0314	4	8537	Mountain whitefish	285	270	Scales	0	PIT		:000000079588
	0314	4	8538	Mountain whitefish	203	94	Scales	0			
	0314	4	8539	Mountain whitefish	212	110	Scales	0			
	0314	4	8540	Mountain whitefish	230	142	Scales	0			
	0314	4	8541	Mountain whitefish	207	100	Scales	0			
	0314	4	8542	Mountain whitefish	223	132	Scales	2	0		
	0314	4	8543	Mountain whitefish	207	90	Scales	0			
	0314	4	8544	Mountain whitefish	283	264	Scales	4	1		
	0314	4	8545	Mountain whitefish	307	372	Scales	0	PIT		:000000085258
	0314	4	8546	Mountain whitefish	322	396	Scales	2	FLOY	3120	YELLOW
	0314	4	8547	Mountain whitefish	347	444	Scales	2	PIT		:000000243044
	0314	4	8548	Mountain whitefish	380	498	Scales	0	PIT		:000000085857
	0314	4	8549	Mountain whitefish	287	270	Scales	2	PIT		:000000241692
	0314	4	8550	Mountain whitefish	284	276	Scales	0	PIT		:000000090038
	0314	4	8551	Mountain whitefish	342	416	Scales	2	PIT		:000000082464
	0314	4	8552	Mountain whitefish	301	296	Scales	0	PIT		:000000090979
	0314	4	8553	Mountain whitefish	272	240	Scales	0	PIT		:000000077378
	0314	4	8554	Mountain whitefish	193	94	Scales	0			
	0314	4	8555	Mountain whitefish	200	88	Scales	0			

Appendix C Table C1. Biological characteristics data for sampled fish, 2008 Peace River Fish Community Indexing Program.

Area and Site Label	Session	FishID	Common Name	Fork Length (mm)	Weight (gm)	Age Structure	Age	Capture Code	Tag		
									Type	Number	Colour
3											
	0314	4	8556	Mountain whitefish	205	92	Scales	0			
	0314	4	8557	Mountain whitefish	365	434	Scales	0	PIT	:000000110195	
	0314	4	8558	Mountain whitefish	201	92	Scales	0			
	0314	4	8559	Mountain whitefish	325	358	Scales	0	PIT	:000000073062	
	0314	4	8560	Mountain whitefish	292	260	Scales	0	PIT	:000000085247	
	0314	4	8561	Mountain whitefish	288	258	Scales	0	PIT	:000000091817	
	0306	4	8562	Walleye	569			0			
	0306	4	8563	Longnose sucker	376	667		0			
	0306	4	8564	Longnose sucker	372	724		0			
	0306	4	8565	Longnose sucker	383	668		0			
	0306	4	8566	Longnose sucker	343	528		0			
	0306	4	8567	Longnose sucker	290	316		0			
	0306	4	8568	Longnose sucker	328	410		0			
	0306	4	8569	Longnose sucker	378	732		0			
	0306	4	8570	Longnose sucker	312	434		0			
	0306	4	8571	Longnose sucker	410	830		0			
	0306	4	8572	Longnose sucker	280	292		0			
	0306	4	8573	Northern pikeminnow	368	538		0			
	0306	4	8574	Longnose sucker	370	608		0			
	0306	4	8575	Longnose sucker	414	916		0			
	0306	4	8576	Largescale sucker	265	220		0			
	0306	4	8577	Longnose sucker	394	742		0			
	0306	4	8578	Bull trout	374	512		2	PIT	:000000248232	
	0306	4	8579	Bull trout	505	1360		2	PIT	4D00017803	
	0306	4	8580	Mountain whitefish	410	756	Scales	0	PIT	:000000090179	
	0306	4	8581	Mountain whitefish	435	756	Scales	2	FLOY	11265	WHITE
	0306	4	8582	Mountain whitefish	330	352	Scales	0	PIT	:000000083538	
	0306	4	8583	Mountain whitefish	365	534	Scales	0	PIT	:000000078113	
	0306	4	8584	Mountain whitefish	330	382	Scales	0	PIT	:000000073121	
	0306	4	8585	Mountain whitefish	283	264	Scales	0	PIT	:000000085393	
	0306	4	8586	Mountain whitefish	285	264	Scales	0	PIT	:000000078445	
	0306	4	8587	Mountain whitefish	319	372	Scales	0	PIT	:000000086077	
	0306	4	8588	Mountain whitefish	417	776	Scales	0	PIT	:000000079318	
	0306	4	8589	Mountain whitefish	401	536	Scales	0	PIT	:000000111196	
	0306	4	8590	Mountain whitefish	415	846	Scales	0	PIT	:000000090731	
	0306	4	8591	Mountain whitefish	399	796	Scales	7	PIT	:000000078429	
	0306	4	8592	Mountain whitefish	320	416	Scales	2	FLOY	14686	WHITE
	0306	4	8593	Mountain whitefish	317	310	Scales	0	PIT	:000000079600	
	0306	4	8594	Mountain whitefish	377	630	Scales	0	PIT	:000000089136	
	0306	4	8595	Mountain whitefish	287	278	Scales	0	PIT	:000000078223	
	0306	4	8596	Mountain whitefish	389	540	Scales	2	PIT	4D00035559	
	0306	4	8597	Mountain whitefish	311	330	Scales	0	PIT	:000000089117	
	0306	4	8598	Mountain whitefish	354	502	Scales	0	PIT	:000000087450	
	0306	4	8599	Mountain whitefish	342	512	Scales	0	PIT	:000000089756	
	0306	4	8600	Mountain whitefish	322	368	Scales	0	PIT	:000000078193	
	0306	4	8601	Mountain whitefish	335	472	Scales	0	PIT	:000000091560	
	0306	4	8602	Mountain whitefish	283	250	Scales	0	PIT	:000000085048	
	0306	4	8603	Mountain whitefish	370	532	Scales	0	PIT	:000000084781	
	0306	4	8604	Mountain whitefish	288	272	Scales	0	PIT	:000000093500	
	0306	4	8605	Mountain whitefish	304	312	Scales	2	FLOY	8950	YELLOW
	0306	4	8606	Mountain whitefish	258	168	Scales	0	PIT	:000000087950	
	0306	4	8607	Mountain whitefish	360	444	Scales	0	PIT	:000000085852	
	0306	4	8608	Mountain whitefish	316	352	Scales	0	PIT	:000000093085	
	0306	4	8609	Mountain whitefish	242	158	Scales	0			
	0306	4	8610	Mountain whitefish	278	214	Scales	0	PIT	:000000086325	
	0306	4	8611	Mountain whitefish	288	230	Scales	0	PIT	:000000092389	
	0306	4	8612	Mountain whitefish	346	462	Scales	2	PIT	0A00710769	
	0306	4	8613	Mountain whitefish	202	90	Scales	0			
	0306	4	8614	Mountain whitefish	277	228	Scales	2	PIT	:000000247270	
	0306	4	8615	Mountain whitefish	276	206	Scales	0	PIT	:000000087537	
	0306	4	8616	Mountain whitefish	245	166	Scales	0			
	0306	4	8617	Mountain whitefish	287	278	Scales	2	PIT	:000000242448	
	0306	4	8618	Mountain whitefish	223	116	Scales	0			
	0306	4	8619	Longnose sucker	253	192		0			

Appendix C Table C1. Biological characteristics data for sampled fish, 2008 Peace River Fish Community Indexing Program.

Area and Site Label	Session	FishID	Common Name	Fork Length (mm)	Weight (gm)	Age Structure	Age	Capture Code	Tag				
									Type	Number	Colour		
3	0306	4	8620	Mountain whitefish	393	756	Scales	0	PIT		:000000088768		
	0306	4	8621	Mountain whitefish	381	678	Scales	0	PIT		:000000083571		
	0306	4	8622	Mountain whitefish	263	222	Scales	5	0	PIT		:000000089230	
	0306	4	8623	Mountain whitefish	278	236	Scales	2	PIT		:000000092035		
	0306	4	8624	Mountain whitefish	203	88	Scales	0					
	0306	4	8625	Mountain whitefish	260	240	Scales	0	PIT		:000000084482		
	0306	4	8626	Mountain whitefish	245	160	Scales	0					
	0315	4	8627	Bull trout	715	3390	Fin Ray	8	0	PIT		:000000077783	
	0315	4	8628	Bull trout	741	5450	Fin Ray	9	0	PIT		:000000073266	
	0315	4	8629	Largescale sucker	506	1920		0					
	0315	4	8630	Arctic grayling	271	280	Scales	2	0	PIT		:000000086080	
	0315	4	8631	Mountain whitefish	312	398	Scales	0	PIT		:000000092811		
	0315	4	8632	Mountain whitefish	310	338	Scales	2	FLOY		11310	WHITE	
	0315	4	8633	Mountain whitefish	335	388	Scales	2	PIT		0A00711652		
	0315	4	8634	Mountain whitefish	212	108	Scales	0					
	0315	4	8635	Mountain whitefish	246	172	Scales	0					
	0315	4	8636	Mountain whitefish	193	74	Scales	0					
	0315	4	8637	Mountain whitefish	188	74	Scales	0					
	0315	4	8638	Mountain whitefish	224	132	Scales	0					
	0315	4	8639	Mountain whitefish	301	304	Scales	0	PIT		:000000109623		
	0315	4	8640	Mountain whitefish	317	338	Scales	0	PIT		:000000092041		
	0315	4	8641	Mountain whitefish	340	416	Scales	2	PIT		0A00720979		
	0315	4	8642	Mountain whitefish	306	338	Scales	0	PIT		:000000087573		
	0315	4	8643	Mountain whitefish	211	100	Scales	0					
	0315	4	8644	Mountain whitefish	184	74	Scales	0					
	0315	4	8645	Mountain whitefish	352	430	Scales	2	FLOY		8982	YELLOW	
	0315	4	8646	Mountain whitefish	313	320	Scales	2	PIT		:000000091675		
	0315	4	8647	Mountain whitefish	248	188	Scales	0					
	0315	4	8648	Mountain whitefish	223	118	Scales	0					
	0315	4	8649	Mountain whitefish	194	86	Scales	0					
	0315	4	8650	Mountain whitefish	250	182	Scales	0	PIT		:000000088531		
	0315	4	8651	Mountain whitefish	246	180	Scales	0					
	0315	4	8652	Mountain whitefish	284	236	Scales	2	PIT		:000000247680		
	0315	4	8653	Mountain whitefish	205	102	Scales	0					
	0315	4	8654	Mountain whitefish	207	98	Scales	0					
	0315	4	8655	Arctic grayling	182	70	Scales	1	0				
	0315	4	8656	Mountain whitefish	188	68	Scales	0					
	0315	4	8657	Mountain whitefish	287	294	Scales	4	0	PIT		:000000089024	
	0315	4	8658	Mountain whitefish	320	374	Scales	2	PIT		:000000248051		
	0315	4	8659	Mountain whitefish	304	318	Scales	0	PIT		:000000077387		
	0315	4	8660	Mountain whitefish	223	118	Scales	0					
	0315	4	8661	Mountain whitefish	202	84	Scales	0					
	0315	4	8662	Mountain whitefish	334	470	Scales	0	PIT		:000000082049		
	0315	4	8663	Mountain whitefish	281	292	Scales	0	PIT		:000000081235		
	0315	4	8664	Mountain whitefish	294	304	Scales	2	PIT		:000000242639		
	0315	4	8665	Mountain whitefish	324	368	Scales	2	FLOY		14713	WHITE	
	0315	4	8666	Mountain whitefish	239	148	Scales	0					
	0315	4	8667	Mountain whitefish	182	64	Scales	0					
	0315	4	8668	Mountain whitefish	221	128	Scales	0					
	0315	4	8669	Mountain whitefish	242	152	Scales	0					
	0315	4	8670	Mountain whitefish	204	90	Scales	2	0				
	0315	4	8671	Mountain whitefish	209	98	Scales	0					
	0315	4	8672	Mountain whitefish	342	420	Scales	0	PIT		:000000089921		
	0315	4	8673	Mountain whitefish	277	234	Scales	2	PIT		:000000246342		
	0315	4	8674	Mountain whitefish	256	186	Scales	0	PIT		:000000111984		
	0315	4	8675	Mountain whitefish	341	396	Scales	2	FLOY		16564	WHITE	
	0315	4	8676	Mountain whitefish	200	90	Scales	0					
	0315	4	8677	Rainbow trout	171	64		0					
	0307	4	8678	Largescale sucker	433	1070		0					
	0307	4	8679	Longnose sucker	412	972		0					
	0307	4	8680	Longnose sucker	388	814		0					
	0307	4	8681	Longnose sucker	386	780		0					
	0307	4	8682	Longnose sucker	374	724		0					
	0307	4	8683	Longnose sucker	368	674		0					

Appendix C Table C1. Biological characteristics data for sampled fish, 2008 Peace River Fish Community Indexing Program.

Area and Site Label	Session	FishID	Common Name	Fork Length (mm)	Weight (gm)	Age Structure	Age	Capture Code	Tag			
									Type	Number	Colour	
3												
0307	4	8684	Mountain whitefish	469	1112	Scales		0	PIT		000000088276	
0307	4	8685	Mountain whitefish	366	468	Scales		2	PIT		0A00726020	
0307	4	8686	Mountain whitefish	386	646	Scales		0	PIT		000000082258	
0307	4	8687	Mountain whitefish	265	240	Scales		2	PIT		000000078819	
0307	4	8688	Mountain whitefish	456	1074	Scales		0	PIT		000000089519	
0307	4	8689	Mountain whitefish	295	270	Scales		0	PIT		000000084799	
0307	4	8690	Mountain whitefish	294	284	Scales		0	PIT		000000089628	
0307	4	8691	Mountain whitefish	277	246	Scales		2	PIT		0000000244950	
0307	4	8692	Mountain whitefish	287	262	Scales		0	PIT		000000089026	
0307	4	8693	Mountain whitefish	197	86	Scales		0				
0307	4	8694	Mountain whitefish	398	682	Scales		0	PIT		000000087021	
0307	4	8695	Mountain whitefish	251	166	Scales		0	PIT		000000078779	
0307	4	8696	Mountain whitefish	211	100	Scales		0				
0307	4	8697	Mountain whitefish	167	58	Scales		0				
0307	4	8698	Mountain whitefish	366	522	Scales		0	PIT		000000090484	
0307	4	8699	Mountain whitefish	326	366	Scales		5	0	PIT	000000087548	
0307	4	8700	Mountain whitefish	330	368	Scales		2	PIT		0000000247380	
0307	4	8701	Mountain whitefish	265	226	Scales		0	PIT		000000088997	
0307	4	8702	Mountain whitefish	320	390	Scales		0	PIT		000000082164	
0307	4	8703	Mountain whitefish	191	76	Scales		0				
0307	4	8704	Mountain whitefish	344	346	Scales		0	PIT		000000082167	
0307	4	8705	Mountain whitefish	272	250	Scales		4	0	PIT	000000077226	
0307	4	8706	Mountain whitefish	279	248	Scales		2	PIT		0000000245792	
0307	4	8707	Mountain whitefish	290	278	Scales		2	PIT		0000000238546	
0307	4	8708	Mountain whitefish	366	504	Scales		2	PIT		0000000243738	
0307	4	8709	Mountain whitefish	145	34	Scales		0				
0307	4	8710	Mountain whitefish	341	386	Scales		0	PIT		000000085607	
0307	4	8711	Mountain whitefish	335	342	Scales		5	0	PIT	000000081359	
0307	4	8712	Mountain whitefish	339	400	Scales		2	PIT		0A00711378	
0307	4	8713	Mountain whitefish	294	282	Scales		2	PIT		0000000246465	
0307	4	8714	Mountain whitefish	316	344	Scales		0	PIT		000000080006	
0307	4	8715	Mountain whitefish	319	390	Scales		0	PIT		000000080397	
0307	4	8716	Mountain whitefish	344	366	Scales		0	PIT		000000078914	
0307	4	8717	Mountain whitefish	276	262	Scales		0	PIT		000000091226	
0307	4	8718	Mountain whitefish	315	358	Scales		0				
0307	4	8719	Mountain whitefish	363	546	Scales		0	PIT		000000087546	
0307	4	8720	Mountain whitefish	332	400	Scales		0	PIT		000000085042	
0307	4	8721	Mountain whitefish	319	360	Scales		2	FLOY		14842	WHITE
0307	4	8722	Mountain whitefish	203	94	Scales		0				
0307	4	8723	Mountain whitefish	380	518	Scales		0	PIT		000000093003	
0307	4	8724	Mountain whitefish	342	456	Scales		2	FLOY		16482	WHITE
0307	4	8725	Mountain whitefish	300	294	Scales		4	0	PIT	000000091097	
0307	4	8726	Mountain whitefish	331	432	Scales		0	PIT		000000085616	
0307	4	8727	Mountain whitefish	284	314	Scales		0	PIT		000000084142	
0307	4	8728	Mountain whitefish	329	376	Scales		0	PIT		000000109732	
0307	4	8729	Mountain whitefish	309	362	Scales		0	PIT		000000084791	
0307	4	8730	Mountain whitefish	333	386	Scales		0	PIT		000000093516	
0307	4	8731	Mountain whitefish	292	288	Scales		0	PIT		000000084391	
0307	4	8732	Mountain whitefish	220	134	Scales		0				
0307	4	8733	Mountain whitefish	286	322	Scales		0	PIT		000000078069	
0307	4	8734	Mountain whitefish	374	562	Scales		2	PIT		0A00714367	
0307	4	8735	Mountain whitefish	331	374	Scales		2	PIT		0A00716873	
0307	4	8736	Mountain whitefish	286	272	Scales		2	PIT		0000000245724	
0307	4	8737	Longnose sucker	392	756			0				
0307	4	8738	Mountain whitefish	341	368	Scales		0	PIT		000000078662	
0307	4	8739	Mountain whitefish	300	284	Scales		0	PIT		000000084910	
0307	4	8740	Mountain whitefish	265	206	Scales		0	PIT		000000088523	
0307	4	8741	Mountain whitefish	305	356	Scales		0	PIT		000000080268	
0307	4	8742	Mountain whitefish	366	586	Scales		0	PIT		000000080859	
0307	4	8743	Mountain whitefish	336	400	Scales		2	PIT		0000000244545	
0307	4	8744	Mountain whitefish	250	162	Scales		0	PIT		000000088760	
0307	4	8745	Mountain whitefish	316	364	Scales		0	PIT		000000082070	
0307	4	8746	Mountain whitefish	235	140	Scales		0				
0307	4	8747	Mountain whitefish	147	36	Scales		1	0			

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Area and Site Label	Session	FishID	Common Name	Fork Length (mm)	Weight (gm)	Age Structure	Age	Capture Code	Tag		
									Type	Number	Colour
3											
0307	4	8748	Mountain whitefish	347	430	Scales		2	PIT	000000248285	
0307	4	8749	Mountain whitefish	301	290	Scales		2	PIT	4D00025635	
0307	4	8750	Mountain whitefish	311	358	Scales		2	PIT	000000245333	
0307	4	8751	Mountain whitefish	302	274	Scales		0	PIT	000000082170	
0316	4	8752	Largescale sucker	531	1852			0			
0316	4	8753	Mountain whitefish	340	376	Scales		0	PIT	000000082050	
0316	4	8754	Bull trout	356	446	Fin Ray	4	0	PIT	000000089796	
0316	4	8755	Bull trout	585	2104			2	FLOY	16378	WHITE
0316	4	8756	Mountain whitefish	274	264	Scales		0	PIT	000000084798	
0316	4	8757	Mountain whitefish	264	238	Scales	4	0	PIT	000000089499	
0316	4	8758	Mountain whitefish	312	346	Scales		2	FLOY	13537	WHITE
0316	4	8759	Mountain whitefish	297	266	Scales		2	PIT	000000241131	
0316	4	8760	Mountain whitefish	261	214	Scales		0	PIT	000000110473	
0316	4	8761	Mountain whitefish	306	352	Scales		0	PIT	000000085855	
0316	4	8762	Mountain whitefish	299	270	Scales		0	PIT	000000080383	
0316	4	8763	Mountain whitefish	345	408	Scales		2	PIT	4D00044763	
0316	4	8764	Mountain whitefish	295	264	Scales		2	PIT	000000247860	
0316	4	8765	Mountain whitefish	192	88	Scales		0			
0316	4	8766	Mountain whitefish	216	108	Scales		0			
0316	4	8767	Mountain whitefish	244	176	Scales		0			
0316	4	8768	Mountain whitefish	217	114	Scales		0			
0316	4	8769	Mountain whitefish	247	168	Scales		0			
0316	4	8770	Mountain whitefish	283	234	Scales		0	PIT	000000078780	
0316	4	8771	Mountain whitefish	204	100	Scales		0			
0316	4	8772	Mountain whitefish	208	98	Scales	2	0			
0316	4	8773	Arctic grayling	319	416	Scales	3	0	PIT	000000089755	
0316	4	8774	Mountain whitefish	278	244	Scales		2	PIT	000000247171	
0316	4	8775	Mountain whitefish	225	124	Scales		0			
0316	4	8776	Mountain whitefish	225	128	Scales		0			
0316	4	8777	Mountain whitefish	287	278	Scales		0	PIT	000000087682	
0316	4	8778	Mountain whitefish	208	104	Scales		0			
0316	4	8779	Mountain whitefish	214	136	Scales		0			
0316	4	8780	Mountain whitefish	291	332	Scales		2	FLOY	14737	WHITE
0316	4	8781	Mountain whitefish	230	138	Scales		0			
0316	4	8782	Mountain whitefish	253	196	Scales		0	PIT	000000085513	
0316	4	8783	Mountain whitefish	214	110	Scales		0			
0316	4	8784	Mountain whitefish	216	118	Scales	2	0			
0316	4	8785	Mountain whitefish	195	82	Scales		0			
0316	4	8786	Mountain whitefish	229	132	Scales		0			
0316	4	8787	Mountain whitefish	163	50	Scales		0			
0316	4	8788	Mountain whitefish	152	46	Scales		0			
0316	4	8789	Mountain whitefish	208	108	Scales	2	0			
0316	4	8790	Mountain whitefish	128	30	Scales		0			
0316	4	8791	Arctic grayling	349	534	Scales	3	0			
0316	4	8792	Mountain whitefish	264	208	Scales		2	PIT	000000244025	
0316	4	8793	Mountain whitefish	293	286	Scales		2	PIT	4D00023125	
0316	4	8794	Mountain whitefish	282	258	Scales		0	PIT	000000083498	
0316	4	8795	Mountain whitefish	207	98	Scales		0			
0316	4	8796	Mountain whitefish	300	298	Scales		0	PIT	000000079320	
0316	4	8797	Mountain whitefish	307	348	Scales		2	PIT	000000246600	
0316	4	8798	Mountain whitefish	332	450	Scales		2	PIT	000000242453	
0316	4	8799	Mountain whitefish	255	184	Scales		2	PIT	000000247090	
0316	4	8800	Mountain whitefish	225	142	Scales		0			
0316	4	8801	Mountain whitefish	287	262	Scales		2	PIT	000000242152	
0316	4	8802	Mountain whitefish	229	124	Scales	2	0			
0316	4	8803	Mountain whitefish	222	118	Scales		0			
0316	4	8804	Mountain whitefish	220	124	Scales		0			
0316	4	8805	Mountain whitefish	207	98	Scales		0			
0316	4	8806	Mountain whitefish	203	88	Scales		0			
0316	4	8807	Mountain whitefish	166	52	Scales		0			
0316	4	8808	Mountain whitefish	213	104	Scales		0			
0316	4	8809	Mountain whitefish	207	94	Scales		0			
0316	4	8810	Mountain whitefish	157	40	Scales		0			
0316	4	8811	Mountain whitefish	218	116	Scales		0			

Appendix C Table C1. Biological characteristics data for sampled fish, 2008 Peace River Fish Community Indexing Program.

Area and Site Label	Session	FishID	Common Name	Fork Length (mm)	Weight (gm)	Age Structure	Age	Capture Code	Tag		
									Type	Number	Colour
3											
	0316	4	8812	Mountain whitefish	244	152	Scales	0			
	0316	4	8813	Mountain whitefish	308	318	Scales	5	2	PIT	4D00034131
	0316	4	8814	Mountain whitefish	205	98	Scales	0			
	0316	4	8815	Mountain whitefish	215	114	Scales	0			
	0316	4	8816	Mountain whitefish	197	82	Scales	0			
	0316	4	8817	Mountain whitefish	220	122	Scales	0			
	0316	4	8818	Mountain whitefish	305	304	Scales	0		PIT	000000111491
	0316	4	8819	Mountain whitefish	221	118	Scales	0			
	0316	4	8820	Mountain whitefish	208	104	Scales	2	0		
	0316	4	8821	Mountain whitefish	210	104	Scales	0			
	0316	4	8822	Mountain whitefish	159	50	Scales	0			
	0316	4	8823	Mountain whitefish	208	108	Scales	0			
	0316	4	8824	Mountain whitefish	148	40	Scales	0			
	0308	4	8825	Mountain whitefish	258	216	Scales	0		PIT	000000085136
	0308	4	8826	Mountain whitefish	342	428	Scales	2		FLOY	8151 YELLOW
	0308	4	8827	Mountain whitefish	250	172	Scales	0		PIT	000000085610
	0308	4	8828	Mountain whitefish	292	280	Scales	2		PIT	000000243058
	0308	4	8829	Mountain whitefish	221	126	Scales	2	0		
	0308	4	8830	Mountain whitefish	212	108	Scales	0			
	0308	4	8831	Mountain whitefish	211	108	Scales	0			
	0308	4	8832	Mountain whitefish	262	186	Scales	0		PIT	000000084516
	0308	4	8833	Mountain whitefish	330	352	Scales	2		PIT	000000248144
	0308	4	8834	Mountain whitefish	302	284	Scales	0		PIT	000000087135
	0308	4	8835	Mountain whitefish	275	228	Scales	0		PIT	000000080625
	0308	4	8836	Mountain whitefish	266	206	Scales	0		PIT	000000079078
	0308	4	8837	Mountain whitefish	261	194	Scales	0		PIT	000000083829
	0308	4	8838	Mountain whitefish	369	492	Scales	0		PIT	000000086741
	0308	4	8839	Mountain whitefish	202	102	Scales	0			
	0308	4	8840	Mountain whitefish	252	180	Scales	0		PIT	000000084421
	0308	4	8841	Mountain whitefish	281	234	Scales	0		PIT	000000085139
	0308	4	8842	Mountain whitefish	307	322	Scales	0		PIT	000000091466
	0308	4	8843	Mountain whitefish	284	254	Scales	0		PIT	000000087686
	0308	4	8844	Mountain whitefish	275	274	Scales	0		PIT	000000082454
	0308	4	8845	Mountain whitefish	199	90	Scales	0			
	0308	4	8846	Mountain whitefish	260	206	Scales	0		PIT	000000084684
	0308	4	8847	Mountain whitefish	278	216	Scales	0		PIT	000000079189
	0308	4	8848	Mountain whitefish	416	752	Scales	0		PIT	000000077096
	0308	4	8849	Mountain whitefish	238	162	Scales	0			
	0308	4	8850	Mountain whitefish	273	230	Scales	0		PIT	000000078667
	0308	4	8851	Mountain whitefish	390	668	Scales	2		FLOY	4421 YELLOW
	0308	4	8852	Longnose sucker	358	574		0			
	0308	4	8853	Mountain whitefish	252	164	Scales	0		PIT	000000091221
	0308	4	8854	Mountain whitefish	273	260	Scales	0		PIT	000000088373
	0308	4	8855	Mountain whitefish	273	210	Scales	2		PIT	000000245952
	0308	4	8856	Mountain whitefish	217	110	Scales	0			
	0308	4	8857	Mountain whitefish	290	304	Scales	0		PIT	000000080998
	0308	4	8858	Mountain whitefish	240	138	Scales	0			
	0308	4	8859	Mountain whitefish	221	124	Scales	0			
	0308	4	8860	Mountain whitefish	305	314	Scales	0		PIT	000000078582
	0308	4	8861	Mountain whitefish	209	96	Scales	0			
	0308	4	8862	Mountain whitefish	185	70	Scales	0			
	0308	4	8863	Mountain whitefish	195	74	Scales	0			
	0308	4	8864	Mountain whitefish	210	100	Scales	0			
	0308	4	8865	Mountain whitefish	216	108	Scales	0			
	0308	4	8866	Mountain whitefish	203	92	Scales	0			
	0308	4	8867	Mountain whitefish	216	114	Scales	0			
	0308	4	8868	Mountain whitefish	217	106	Scales	0			
	0308	4	8869	Mountain whitefish	204	90	Scales	0			
	0308	4	8870	Mountain whitefish	421	894	Scales	0		PIT	000000079726
	0308	4	8871	Mountain whitefish	298	300	Scales	4	0	PIT	000000093584
	0308	4	8872	Mountain whitefish	397	646	Scales	2		FLOY	11333 WHITE
	0308	4	8873	Mountain whitefish	250	166	Scales	0		PIT	000000083723
	0308	4	8874	Mountain whitefish	262	216	Scales	0		PIT	000000092526
	0308	4	8875	Mountain whitefish	297	292	Scales	0		PIT	000000078589

Appendix C Table C1. Biological characteristics data for sampled fish, 2008 Peace River Fish Community Indexing Program.

Area and Site Label	Session	FishID	Common Name	Fork Length (mm)	Weight (gm)	Age Structure	Age	Capture Code	Tag		
									Type	Number	Colour
3											
0308	4	8876	Mountain whitefish	230	134	Scales	2	0			
0308	4	8877	Mountain whitefish	200	86	Scales		0			
0308	4	8878	Mountain whitefish	218	114	Scales		0			
0308	4	8879	Mountain whitefish	158	40	Scales	1	0			
0308	4	8880	Mountain whitefish	353	450	Scales		2	PIT	000000085885	
0308	4	8881	Mountain whitefish	271	226	Scales		0	PIT	000000079592	
0308	4	8882	Mountain whitefish	218	112	Scales		0			
0308	4	8883	Mountain whitefish	386	596	Scales		2	PIT	0A00736067	
0308	4	8884	Mountain whitefish	261	206	Scales		0	PIT	000000073238	
0308	4	8885	Mountain whitefish	269	248	Scales		0	PIT	000000080856	
0308	4	8886	Mountain whitefish	255	192	Scales		0	PIT	000000077956	
0308	4	8887	Mountain whitefish	220	114	Scales		0			
0308	4	8888	Mountain whitefish	364	536	Scales		0	PIT	000000092927	
0308	4	8889	Mountain whitefish	323	332	Scales		2	PIT	0A00707960	
0308	4	8890	Mountain whitefish	310	342	Scales		0	PIT	000000073191	
0308	4	8891	Mountain whitefish	205	94	Scales		0			
0308	4	8892	Mountain whitefish	206	98	Scales		0			
0308	4	8893	Mountain whitefish	320	328	Scales		2	PIT	4D00034718	
0308	4	8894	Mountain whitefish	295	278	Scales		2	PIT	000000242366	
0308	4	8895	Mountain whitefish	239	166	Scales		0			
0308	4	8896	Mountain whitefish	194	70	Scales		0			
0308	4	8897	Mountain whitefish	305	328	Scales	4	0	PIT	000000110903	
0308	4	8898	Mountain whitefish	292	278	Scales		0	PIT	000000087261	
0308	4	8899	Mountain whitefish	273	246	Scales		0	PIT	000000078317	
0308	4	8900	Mountain whitefish	320	352	Scales		0	PIT	000000091827	
0308	4	8901	Mountain whitefish	271	228	Scales		0	PIT	000000090074	
0308	4	8902	Mountain whitefish	316	350	Scales		2	PIT	0A00720066	
0308	4	8903	Mountain whitefish	321	296	Scales		2	PIT	000000246858	
0308	4	8904	Mountain whitefish	307	310	Scales		0	PIT	000000084137	
0308	4	8905	Mountain whitefish	270	232	Scales		2	PIT	000000246572	
0308	4	8906	Bull trout	248	166	Fin Ray	3	0			
0308	4	8907	Bull trout	365	424	Fin Ray	5	0	PIT	000000085851	
0308	4	8908	Bull trout	453	1040	Fin Ray	4	0	PIT	000000087993	
0311	4	8909	Longnose sucker	474	1544			0			
0311	4	8910	Longnose sucker	462	1344			0			
0311	4	8911	Largescale sucker	529	1988			0			
0311	4	8912	Longnose sucker	335	486			0			
0311	4	8913	Longnose sucker	367	678			0			
0311	4	8914	Longnose sucker	330	470			0			
0311	4	8915	Mountain whitefish	314	308	Scales		0	PIT	000000078076	
0311	4	8916	Mountain whitefish	414	848	Scales		2	PIT	000000239077	
0311	4	8917	Mountain whitefish	366	484	Scales		0	PIT	000000093121	
0311	4	8918	Mountain whitefish	416	780	Scales		0	PIT	000000090464	
0311	4	8919	Mountain whitefish	351	426	Scales		2	FLOY	7434	YELLOW
0311	4	8920	Mountain whitefish	286	258	Scales		2	PIT	000000243884	
0311	4	8921	Mountain whitefish	211	106	Scales		0			
0311	4	8922	Mountain whitefish	274	266	Scales		0	PIT	000000085499	
0311	4	8923	Mountain whitefish	350	502	Scales		2	PIT	000000245276	
0311	4	8924	Mountain whitefish	305	382	Scales	5	0	PIT	000000093002	
0311	4	8925	Mountain whitefish	303	278	Scales		0	PIT	000000109853	
0311	4	8926	Mountain whitefish	286	268	Scales		0	PIT	000000089935	
0311	4	8927	Mountain whitefish	377	562	Scales		2	FLOY	10480	YELLOW
0311	4	8928	Mountain whitefish	202	104	Scales		0			
0311	4	8929	Mountain whitefish	304	412	Scales		2	PIT	0A00726533	
0311	4	8930	Mountain whitefish	318	362	Scales		2	PIT	000000248051	
0311	4	8931	Mountain whitefish	296	288	Scales		0	PIT	000000085768	
0311	4	8932	Mountain whitefish	319	362	Scales		2	FLOY	6152	YELLOW
0311	4	8933	Mountain whitefish	379	546	Scales	7	0	PIT	000000081599	
0311	4	8934	Mountain whitefish	329	430	Scales		0	PIT	000000093029	
0311	4	8935	Mountain whitefish	234	140	Scales		0			
0311	4	8936	Mountain whitefish	336	396	Scales		0	PIT	000000086861	
0311	4	8937	Mountain whitefish	329	354	Scales	5	0	PIT	000000092531	
0311	4	8938	Mountain whitefish	423	854	Scales		0	PIT	000000086216	
0311	4	8939	Mountain whitefish	384	742	Scales		0	PIT	000000091306	

Appendix C Table C1. Biological characteristics data for sampled fish, 2008 Peace River Fish Community Indexing Program.

Area and Site Label	Session	FishID	Common Name	Fork Length (mm)	Weight (gm)	Age Structure	Age	Capture Code	Tag		
									Type	Number	Colour
3											
0311	4	8940	Mountain whitefish	333	394	Scales		0	PIT		000000077635
0311	4	8941	Mountain whitefish	336	424	Scales		0	PIT		000000076424
0311	4	8942	Mountain whitefish	298	320	Scales		0	PIT		000000079871
0311	4	8943	Mountain whitefish	277	216	Scales		2	PIT		000000238117
0311	4	8944	Mountain whitefish	290	250	Scales		0	PIT		000000076835
0311	4	8945	Mountain whitefish	321	372	Scales		0	PIT		000000092841
0311	4	8946	Mountain whitefish	204	88	Scales		0			
0311	4	8947	Mountain whitefish	296	260	Scales		4	0	PIT	000000093790
0311	4	8948	Mountain whitefish	291	278	Scales		0	PIT		000000087029
0311	4	8949	Mountain whitefish	290	288	Scales		0	PIT		000000088900
0311	4	8950	Mountain whitefish	197	86	Scales		0			
0311	4	8951	Mountain whitefish	222	124	Scales		0			
0311	4	8952	Mountain whitefish	226	132	Scales		0			
0311	4	8953	Mountain whitefish	160	48	Scales		1	0		
0311	4	8954	Mountain whitefish	189	80	Scales		0			
0311	4	8955	Mountain whitefish	274	246	Scales		0	PIT		000000091092
0311	4	8956	Mountain whitefish	205	92	Scales		0			
0311	4	8957	Mountain whitefish	247	162	Scales		0			
0311	4	8958	Mountain whitefish	282	244	Scales		0	PIT		000000081117
0311	4	8959	Mountain whitefish	326	386	Scales		0	PIT		000000104649
0311	4	8960	Mountain whitefish	195	88	Scales		0			
0311	4	8961	Mountain whitefish	176	62	Scales		0			
0311	4	8962	Mountain whitefish	244	154	Scales		0			
0311	4	8963	Mountain whitefish	350	452	Scales		2	FLOY	15754	WHITE
0311	4	8964	Mountain whitefish	203	84	Scales		2	0		
0311	4	8965	Mountain whitefish	225	136	Scales		0			
0311	4	8966	Mountain whitefish	207	104	Scales		0			
0311	4	8967	Mountain whitefish	273	232	Scales		0	PIT		000000079168
0311	4	8968	Mountain whitefish	196	96	Scales		0			
0311	4	8969	Mountain whitefish	187	74	Scales		0			
0311	4	8970	Mountain whitefish	197	84	Scales		0			
0311	4	8971	Mountain whitefish	169	60	Scales		0			
0311	4	8972	Mountain whitefish	335	410	Scales		2	PIT		000000080377
0311	4	8973	Mountain whitefish	357	518	Scales		2	PIT		000000247737
0311	4	8974	Mountain whitefish	274	210	Scales		0	PIT		000000090747
0311	4	8975	Mountain whitefish	222	106	Scales		0			
0311	4	8976	Mountain whitefish	321	392	Scales		2	PIT	0A00725869	
0311	4	8977	Mountain whitefish	319	346	Scales		0	PIT		000000078910
0311	4	8978	Mountain whitefish	207	108	Scales		0			
0311	4	8979	Mountain whitefish	258	214	Scales		0	PIT		000000090350
0311	4	8980	Mountain whitefish	201	86	Scales		0			
0311	4	8981	Mountain whitefish	224	128	Scales		0			
0311	4	8982	Mountain whitefish	261	202	Scales		0	PIT		000000078897
0311	4	8983	Mountain whitefish	377	450	Scales		2	FLOY	4462	YELLOW
0311	4	8984	Mountain whitefish	322	352	Scales		0	PIT		000000083485
0311	4	8985	Mountain whitefish	285	296	Scales		2	PIT		000000247688
0311	4	8986	Mountain whitefish	266	212	Scales		0	PIT		000000088990
0311	4	8987	Mountain whitefish	153	36	Scales		1	0		
0311	4	8988	Mountain whitefish	190	80	Scales		0			
0311	4	8989	Mountain whitefish	201	90	Scales		0			
0311	4	8990	Mountain whitefish	217	104	Scales		0			
0311	4	8991	Mountain whitefish	342	428	Scales		2	PIT		000000244553
0311	4	8992	Mountain whitefish	207	94	Scales		0			
0311	4	8993	Mountain whitefish	283	260	Scales		0	PIT		000000086759
0311	4	8994	Bull trout	212	86	Fin Ray/Scale:	2	0			
0311	4	8995	Bull trout	358	460	Fin Ray	3	0	PIT		000000078706
0309	4	8996	Mountain whitefish	421	848	Scales		2	PIT		000000086216
0309	4	8997	Mountain whitefish	422	748	Scales		2	FLOY	5917	YELLOW
0309	4	8998	Mountain whitefish	311	352	Scales		0	PIT		000000081471
0309	4	8999	Mountain whitefish	424	994	Scales		11	0	PIT	000000090951
0309	4	9000	Mountain whitefish	384	592	Scales		0	PIT		000000087016
0309	4	9001	Mountain whitefish	358	456	Scales		7	0	PIT	000000079868
0309	4	9002	Bull trout	508	1538	Fin Ray	5	0	PIT		000000089123
0309	4	9003	Mountain whitefish	308	352	Scales		0	PIT		000000091222

Appendix C Table C1. Biological characteristics data for sampled fish, 2008 Peace River Fish Community Indexing Program.

Area and Site Label	Session	FishID	Common Name	Fork Length (mm)	Weight (gm)	Age Structure	Age	Capture Code	Tag		
									Type	Number	Colour
3											
0309	4	9004	Mountain whitefish	335	386	Scales		0	PIT		:000000090039
0309	4	9005	Mountain whitefish	327	410	Scales		0	PIT		:000000091218
0309	4	9006	Mountain whitefish	282	258	Scales		0	PIT		:000000076839
0309	4	9007	Mountain whitefish	296	284	Scales		0	PIT		:000000086096
0309	4	9008	Mountain whitefish	344	450	Scales		2	PIT		0A00736104
0309	4	9009	Mountain whitefish	248	188	Scales		0			
0309	4	9010	Mountain whitefish	205	86	Scales		0			
0309	4	9011	Mountain whitefish	218	114	Scales		0			
0309	4	9012	Mountain whitefish	259	226	Scales		0	PIT		:000000082458
0309	4	9013	Mountain whitefish	249	170	Scales		3	0		
0309	4	9014	Mountain whitefish	205	104	Scales		2	0		
0309	4	9015	Mountain whitefish	213	106	Scales		0			
0309	4	9016	Mountain whitefish	293	288	Scales		2	PIT		:000000085768
0309	4	9017	Mountain whitefish	281	242	Scales		0	PIT		:000000087138
0309	4	9018	Mountain whitefish	205	92	Scales		0			
0309	4	9019	Mountain whitefish	213	100	Scales		2	0		
0309	4	9020	Mountain whitefish	260	196	Scales		0	PIT		:000000110074
0309	4	9021	Mountain whitefish	188	70	Scales		2	0		
0309	4	9022	Mountain whitefish	204	88	Scales		2	0		
0309	4	9023	Mountain whitefish	307	322	Scales		0	PIT		:000000081466
0309	4	9024	Mountain whitefish	270	224	Scales		2	PIT		:000000088990
0309	4	9025	Mountain whitefish	200	80	Scales		2	0		
0309	4	9026	Mountain whitefish	208	102	Scales		0			
0309	4	9027	Mountain whitefish	160	38	Scales		1	0		
0309	4	9028	Mountain whitefish	156	38	Scales		0			
0309	4	9029	Mountain whitefish	162	48	Scales		0			
0309	4	9030	Mountain whitefish	160	48	Scales		1	0		
0309	4	9031	Mountain whitefish	153	46	Scales		0			
0310	4	9032	Longnose sucker	342	542			0			
0310	4	9033	Mountain whitefish	332	416	Scales		5	0	PIT	:000000079325
0310	4	9034	Mountain whitefish	314	356	Scales		0	PIT		:000000090585
0310	4	9035	Mountain whitefish	366	536	Scales		0	PIT		:000000090470
0310	4	9036	Mountain whitefish	414	790	Scales		2	PIT		:000000090464
0310	4	9037	Mountain whitefish	287	262	Scales		4	0	PIT	:000000090480
0310	4	9038	Mountain whitefish	206	100	Scales		0			
0310	4	9039	Mountain whitefish	349	500	Scales		6	2	PIT	:000000244113
0310	4	9040	Mountain whitefish	423	670	Scales		2	FLOY		4508 YELLOW
0310	4	9041	Mountain whitefish	362	484	Scales		2	FLOY		6209 YELLOW
0310	4	9042	Mountain whitefish	312	316	Scales		2	PIT		:000000073251
0310	4	9043	Mountain whitefish	201	92	Scales		0			
0310	4	9044	Mountain whitefish	266	202	Scales		0	PIT		:000000083494
0310	4	9045	Mountain whitefish	183	84	Scales		0			
0310	4	9046	Mountain whitefish	208	102	Scales		0			
0310	4	9047	Mountain whitefish	187	70	Scales		0			
0310	4	9048	Mountain whitefish	199	74	Scales		0			
0310	4	9049	Mountain whitefish	192	70	Scales		0			
0310	4	9050	Arctic grayling	181	66	Scales		1	0		
0310	4	9051	Mountain whitefish	213	108	Scales		0			
0310	4	9052	Mountain whitefish	205	98	Scales		0			
0310	4	9053	Mountain whitefish	139	30	Scales		0			
0310	4	9054	Rainbow trout	321	458			0			
0310	4	9055	Mountain whitefish	285	286	Scales		2	PIT		4D00022031
0310	4	9056	Mountain whitefish	275	246	Scales		0	PIT		:000000084946
0310	4	9057	Mountain whitefish	294	302	Scales		2	PIT		:000000243979
0310	4	9058	Mountain whitefish	270	236	Scales		0	PIT		:000000091695
0310	4	9059	Mountain whitefish	199	88	Scales		2	0		
0310	4	9060	Mountain whitefish	371	566	Scales		7	0	PIT	:000000085750
0310	4	9061	Mountain whitefish	277	224	Scales		0	PIT		:000000077672
0310	4	9062	Mountain whitefish	242	172	Scales		0			
0310	4	9063	Mountain whitefish	285	250	Scales		5	0	PIT	:000000092805
0310	4	9064	Mountain whitefish	200	86	Scales		0			
0310	4	9065	Mountain whitefish	197	82	Scales		0			
0310	4	9066	Mountain whitefish	293	270	Scales		2	PIT		:000000238597
0310	4	9067	Mountain whitefish	330	362	Scales		2	PIT		0A00747658

Appendix C Table C1. Biological characteristics data for sampled fish, 2008 Peace River Fish Community Indexing Program.

Area and Site Label	Session	FishID	Common Name	Fork Length (mm)	Weight (gm)	Age Structure	Age	Capture Code	Tag		
									Type	Number	Colour
3											
	0310	4	9068	Mountain whitefish	209	90	Scales	0			
	0310	4	9069	Mountain whitefish	210	82	Scales	0			
	0310	4	9070	Mountain whitefish	203	90	Scales	0			
	0310	4	9071	Mountain whitefish	408	650	Scales	0	PIT	:000000086082	
	0310	4	9072	Mountain whitefish	356	586	Scales	0	PIT	:000000093186	
	0310	4	9073	Mountain whitefish	278	230	Scales	2	PIT	:000000247677	
	0310	4	9074	Mountain whitefish	253	176	Scales	0	PIT	:000000084109	
	0310	4	9075	Mountain whitefish	248	182	Scales	0			
	0310	4	9076	Mountain whitefish	363	562	Scales	0	PIT	:000000086613	
	0310	4	9077	Mountain whitefish	293	304	Scales	0	PIT	:000000089128	
	0310	4	9078	Mountain whitefish	211	92	Scales	0			
	0310	4	9079	Mountain whitefish	192	70	Scales	0			
	0310	4	9080	Mountain whitefish	164	46	Scales	0			
	0310	4	9081	Mountain whitefish	264	204	Scales	0	PIT	:000000084524	
	0310	4	9082	Mountain whitefish	306	288	Scales	2	PIT	:000000083522	
	0310	4	9083	Arctic grayling	172	60	Scales	1	0		
	0310	4	9084	Mountain whitefish	206	76	Scales	0			
	0310	4	9085	Mountain whitefish	197	74	Scales	0			
	0310	4	9086	Mountain whitefish	156	40	Scales	0			
	0310	4	9087	Mountain whitefish	306	270	Scales	2	FLOY	15790	WHITE
	0310	4	9088	Mountain whitefish	163	46	Scales	0			
	0310	4	9089	Mountain whitefish	165	48	Scales	0			
	0312	4	9090	Bull trout	461	946		4	2	PIT	:000000243426
	0312	4	9091	Mountain whitefish	423	790	Scales	2	PIT	:000000090464	
	0312	4	9092	Mountain whitefish	375	478	Scales	0	PIT	:000000093855	
	0312	4	9093	Longnose sucker	380	670		0			
	0312	4	9094	Longnose sucker	432	1052		0			
	0312	4	9095	Longnose sucker	288	314		0			
	0312	4	9096	Largescale sucker	434	956		0			
	0312	4	9097	Largescale sucker	474	1340		0			
	0312	4	9098	Longnose sucker	418	942		0			
	0312	4	9099	Longnose sucker	406	896		0			
	0312	4	9100	Largescale sucker	449	1088		0			
	0312	4	9101	Largescale sucker	520	1794		0			
	0312	4	9102	Longnose sucker	461	1122		0			
	0312	4	9103	Longnose sucker	385	758		0			
	0312	4	9104	Longnose sucker	296	324		0			
	0312	4	9105	Longnose sucker	327	484		0			
	0312	4	9106	Longnose sucker	391	922		0			
	0312	4	9107	Longnose sucker	322	446		0			
	0312	4	9108	Longnose sucker	329	448		0			
	0312	4	9109	Longnose sucker	211	108		0			
	0312	4	9110	Mountain whitefish	436	888	Scales	0	PIT	:000000088505	
	0312	4	9111	Mountain whitefish	406	616	Scales	2	PIT	0A00745376	
	0312	4	9112	Mountain whitefish	409	658	Scales	0	PIT	:000000110324	
	0312	4	9113	Mountain whitefish	255	200	Scales	0	PIT	:000000089782	
	0312	4	9114	Mountain whitefish	300	322	Scales	0	PIT	:000000082261	
	0312	4	9115	Arctic grayling	260	210	Scales	2	0	PIT	:000000109957
	0312	4	9116	Mountain whitefish	142	32	Scales	0			
	0312	4	9117	Mountain whitefish	198	90	Scales	2	0		
	0312	4	9118	Mountain whitefish	364	545	Scales	2	PIT	:000000092927	
	0312	4	9119	Mountain whitefish	303	352	Scales	0	PIT	:000000093597	
	0312	4	9120	Mountain whitefish	289	278	Scales	0	PIT	:000000084523	
	0312	4	9121	Longnose sucker	208	118		0			
	0312	4	9122	Mountain whitefish	310	332	Scales	0	PIT	:000000085888	
	0312	4	9123	Mountain whitefish	373	600	Scales	0	PIT	:000000091908	
	0312	4	9124	Mountain whitefish	91	6	Scales	0			
	0312	4	9125	Mountain whitefish	277	330	Scales	0	PIT	:000000092063	
	0312	4	9126	Mountain whitefish	316	342	Scales	0	PIT	:000000082370	
	0312	4	9127	Mountain whitefish	301	330	Scales	0	PIT	:000000089932	
	0312	4	9128	Mountain whitefish	209	94	Scales	0			
	0312	4	9129	Mountain whitefish	382	546	Scales	2	PIT	0A00726415	
	0312	4	9130	Mountain whitefish	314	362	Scales	0	PIT	:000000092423	
	0312	4	9131	Mountain whitefish	200	80	Scales	0			

Appendix C Table C1. Biological characteristics data for sampled fish, 2008 Peace River Fish Community Indexing Program.

Area and Site Label	Session	FishID	Common Name	Fork Length (mm)	Weight (gm)	Age Structure	Age	Capture Code	Tag		
									Type	Number	Colour
3											
0312	4	9132	Mountain whitefish	248	172	Scales		0			
0312	4	9133	Mountain whitefish	212	104	Scales		0			
0312	4	9134	Mountain whitefish	286	266	Scales	4	0	PIT	000000080858	
0312	4	9135	Mountain whitefish	92	8	Scales		0			
0312	4	9136	Mountain whitefish	205	104	Scales		0			
0312	4	9137	Mountain whitefish	158	46	Scales		0			
0312	4	9138	Mountain whitefish	315	338	Scales		0	PIT	000000091670	
0312	4	9139	Mountain whitefish	304	308	Scales		0	PIT	000000085882	
0312	4	9140	Mountain whitefish	366	508	Scales		0	PIT	000000091573	
0312	4	9141	Mountain whitefish	311	304	Scales		2	PIT	000000246814	
0312	4	9142	Mountain whitefish	294	244	Scales		0	PIT	000000082178	
0312	4	9143	Mountain whitefish	311	342	Scales		0	PIT	000000109849	
0312	4	9144	Mountain whitefish	265	220	Scales		0	PIT	000000087003	
0312	4	9145	Mountain whitefish	285	250	Scales		2	PIT	000000092805	
0312	4	9146	Mountain whitefish	223	118	Scales		0			
0312	4	9147	Mountain whitefish	376	522	Scales		0	PIT	000000091086	
0312	4	9148	Mountain whitefish	153	36	Scales	1	0			
0312	4	9149	Mountain whitefish	221	120	Scales		0			
0312	4	9150	Mountain whitefish	196	78	Scales		0			
0312	4	9151	Mountain whitefish	206	94	Scales		0			
0312	4	9152	Mountain whitefish	219	116	Scales		0			
0312	4	9153	Mountain whitefish	154	46	Scales		0			
0312	4	9154	Mountain whitefish	153	42	Scales		0			
0312	4	9155	Mountain whitefish	315	426	Scales	6	0	PIT	000000087688	
0312	4	9156	Mountain whitefish	347	522	Scales		0	PIT	000000093459	
0312	4	9157	Mountain whitefish	318	332	Scales		0	PIT	000000087410	
0312	4	9158	Mountain whitefish	305	296	Scales	5	0	PIT	000000083812	
0312	4	9159	Mountain whitefish	327	338	Scales		0	PIT	000000088645	
0312	4	9160	Mountain whitefish	270	232	Scales		0	PIT	000000080141	
0312	4	9161	Mountain whitefish	203	90	Scales		0			
0312	4	9162	Mountain whitefish	147	36	Scales		0			
0312	4	9163	Mountain whitefish	450	962	Scales		0	PIT	000000092643	
0312	4	9164	Mountain whitefish	317	350	Scales		0	PIT	000000083971	
0312	4	9165	Mountain whitefish	321	378	Scales		0	PIT	000000089133	
0312	4	9166	Mountain whitefish	341	452	Scales		2	PIT	000000244707	
0312	4	9167	Mountain whitefish	281	270	Scales		2	PIT	000000247356	
0312	4	9168	Mountain whitefish	337	460	Scales		0	PIT	000000092033	
0312	4	9169	Mountain whitefish	365	536	Scales		0	PIT	000000089626	
0312	4	9170	Mountain whitefish	196	90	Scales		0			
0312	4	9171	Mountain whitefish	276	264	Scales		0	PIT	000000091458	
0312	4	9172	Mountain whitefish	276	278	Scales		0	PIT	000000078909	
0312	4	9173	Mountain whitefish	345	462	Scales		0	PIT	000000084906	
0312	4	9174	Mountain whitefish	346	436	Scales	6	2	PIT	000000238178	
0312	4	9175	Mountain whitefish	247	196	Scales		0			
0312	4	9176	Mountain whitefish	255	186	Scales		0	PIT	000000077824	
0312	4	9177	Mountain whitefish	207	108	Scales		0			
0312	4	9178	Mountain whitefish	86	6	Scales		0			
0312	4	9179	Mountain whitefish	186	70	Scales		0			
0302	5	10644	Mountain whitefish	301				2	PIT	4D00015342	
0302	5	10645	Bull trout	505	1206			5	2	PIT	000000243314
0302	5	10646	Mountain whitefish	302				2	PIT	000000242255	
0302	5	10647	Mountain whitefish	284				2	PIT	000000085126	
0302	5	10648	Mountain whitefish	301				2	PIT	000000080863	
0302	5	10649	Mountain whitefish	333				2	FLOY	3957	YELLOW
0302	5	10650	Mountain whitefish	315				2	PIT	0A00712040	
0302	5	10651	Mountain whitefish	311				2	FLOY	13566	WHITE
0302	5	10652	Mountain whitefish	352				2	FLOY	3952	YELLOW
0302	5	10653	Mountain whitefish	305				2	PIT	4D00031306	
0302	5	10654	Mountain whitefish	298				2	PIT	000000245450	
0302	5	10655	Mountain whitefish	303				2	PIT	000000077366	
0302	5	10656	Mountain whitefish	408				2	FLOY	16002	WHITE
0302	5	10657	Mountain whitefish	318				2	PIT	000000243468	
0302	5	10658	Mountain whitefish	305				2	PIT	000000247435	
0302	5	10659	Mountain whitefish	390				2	FLOY	16007	WHITE

Appendix C Table C1. Biological characteristics data for sampled fish, 2008 Peace River Fish
Community Indexing Program.

Area and Site Label	Session	FishID	Common Name	Fork Length (mm)	Weight (gm)	Age Structure	Age	Capture Code	Tag			
									Type	Number	Colour	
3												
	0302	5	10660	Mountain whitefish	331			2	PIT	000000238846		
	0302	5	10661	Mountain whitefish	265			2	PIT	000000110480		
	0302	5	10662	Mountain whitefish	286			2	PIT	000000244104		
	0302	5	10663	Mountain whitefish	294			2	PIT	000000244904		
	0301	5	10664	Mountain whitefish	307			2	PIT	000000238533		
	0301	5	10665	Mountain whitefish	343			2	FLOY	15609	WHITE	
	0301	5	10666	Mountain whitefish	272			2	PIT	000000244191		
	0301	5	10667	Mountain whitefish	268			2	PIT	000000090740		
	0301	5	10668	Rainbow trout	324			0				
	0301	5	10669	Mountain whitefish	265			2	PIT	000000087554		
	0301	5	10670	Mountain whitefish	286			2	PIT	000000247434		
	0301	5	10671	Arctic grayling	249			0				
	0301	5	10672	Mountain whitefish	365			2	FLOY	5958	YELLOW	
	0301	5	10673	Mountain whitefish	368			2	FLOY	15595	WHITE	
	0301	5	10674	Mountain whitefish	266			2	PIT	000000247370		
	0301	5	10675	Mountain whitefish	292			2	PIT	000000245359		
	0301	5	10676	Mountain whitefish	324			2	FLOY	13599	WHITE	
	0301	5	10677	Rainbow trout	156			0				
	0301	5	10678	Mountain whitefish	294			2	FLOY	2930	YELLOW	
	0301	5	10679	Mountain whitefish	273			2	PIT	000000248288		
	0301	5	10680	Rainbow trout	121			0				
	0301	5	10681	Rainbow trout	168			0				
	0303	5	10682	Bull trout	530	1668	Fin Ray	5	0	PIT	000000079184	
	0303	5	10683	Mountain whitefish	397			2	PIT	4D00020571		
	0303	5	10684	Mountain whitefish	344			2	PIT	000000243743		
	0303	5	10685	Mountain whitefish	366			2	PIT	000000247167		
	0303	5	10686	Mountain whitefish	267			2	PIT	000000246926		
	0303	5	10687	Mountain whitefish	297			2	FLOY	10355	YELLOW	
	0303	5	10688	Mountain whitefish	283			2	PIT	0A00710921		
	0303	5	10689	Mountain whitefish	331			2	PIT	000000245036		
	0303	5	10690	Mountain whitefish	390			2	FLOY	10325	YELLOW	
	0303	5	10691	Mountain whitefish	273			2	PIT	000000245883		
	0303	5	10692	Mountain whitefish	306			2	PIT	000000244549		
	0303	5	10693	Mountain whitefish	374			2	PIT	000000239401		
	0303	5	10694	Mountain whitefish	303			2	PIT	000000242607		
	0303	5	10695	Mountain whitefish	328			2	FLOY	6031	YELLOW	
	0303	5	10696	Bull trout	307		Fin Ray	3	0	PIT	000000078559	
	0303	5	10697	Mountain whitefish	298	264		2	PIT	000000245302		
	0303	5	10698	Mountain whitefish	325			2	FLOY	13625	WHITE	
	0303	5	10699	Mountain whitefish	253			2	PIT	000000078210		
	0303	5	10700	Mountain whitefish	276			2	PIT	000000247222		
	0304	5	10701	Mountain whitefish	261			2	PIT	000000088269		
	0304	5	10702	Mountain whitefish	290			2	PIT	000000246490		
	0304	5	10703	Mountain whitefish	344			2	FLOY	5961	YELLOW	
	0304	5	10704	Mountain whitefish	327			2	PIT	000000077105		
	0304	5	10705	Mountain whitefish	283			2	PIT	4D00036035		
	0304	5	10706	Mountain whitefish	319			2	PIT	000000246456		
	0304	5	10707	Arctic grayling	323	454	Scales	4	0			
	0305	5	10708	Bull trout	623	3600		2	FLOY	12535	WHITE	
	0305	5	10709	Mountain whitefish	372			2	FLOY	7282	YELLOW	
	0305	5	10710	Mountain whitefish	384			2	FLOY	4650	YELLOW	
	0305	5	10711	Mountain whitefish	331			2	FLOY	5936	YELLOW	
	0305	5	10712	Mountain whitefish	411			2	PIT	000000244012		
	0305	5	10713	Mountain whitefish	329			2	PIT	4D00033069		
	0305	5	10714	Mountain whitefish	347			2	PIT	000000238779		
	0305	5	10715	Rainbow trout	166			0				
	0305	5	10716	Mountain whitefish	402			2	FLOY	10582	YELLOW	
	0305	5	10717	Mountain whitefish	303			2	PIT	000000245257		
	0305	5	10718	Mountain whitefish	339			2	PIT	000000244845		
	0305	5	10719	Mountain whitefish	388			2	PIT	000000091306		
	0305	5	10720	Mountain whitefish	368			2	FLOY	10453	YELLOW	
	0305	5	10721	Mountain whitefish	401			2	FLOY	6295	YELLOW	
	0305	5	10722	Mountain whitefish	438			2	PIT	000000245534		
	0305	5	10723	Mountain whitefish	324			2	PIT	0A00736822		

Appendix C Table C1. Biological characteristics data for sampled fish, 2008 Peace River Fish
Community Indexing Program.

Area and Site Label	Session	FishID	Common Name	Fork Length (mm)	Weight (gm)	Age Structure	Age	Capture Code	Tag		
									Type	Number	Colour
3											
0305	5	10724	Mountain whitefish	283				2	PIT	000000081699	
0305	5	10725	Mountain whitefish	345				2	PIT	4D00020914	
0305	5	10726	Mountain whitefish	260				2	PIT	000000084521	
0305	5	10727	Mountain whitefish	342				2	FLOY	12452	WHITE
0305	5	10728	Mountain whitefish	390				2	PIT	0A00727856	
0305	5	10729	Mountain whitefish	336				2	PIT	000000241069	
0305	5	10730	Mountain whitefish	316				2	PIT	000000246396	
0305	5	10731	Mountain whitefish	293				2	PIT	000000241846	
0305	5	10732	Arctic grayling	287	304	Scales	2	0	PIT	000000110753	
0305	5	10733	Arctic grayling	270	228	Scales		2	PIT	000000247563	
0305	5	10734	Bull trout	323	308			2	PIT	000000247490	
0305	5	10735	Mountain whitefish	320				2	FLOY	6225	YELLOW
0305	5	10736	Mountain whitefish	330				2	PIT	000000247724	
0305	5	10737	Rainbow trout	216	140			0			
0305	5	10738	Kokanee	219				0			
0305	5	10739	Bull trout	244	124	Fin Ray/Scale	2	0			
0305	5	10740	Rainbow trout	290				0			
0305	5	10741	Mountain whitefish	316				2	FLOY	7370	YELLOW
0305	5	10742	Arctic grayling	196	90	Scales	1	0			
0305	5	10743	Mountain whitefish	279				2	PIT	000000241424	
0305	5	10744	Mountain whitefish	289				2	PIT	000000244836	
0305	5	10745	Arctic grayling	229	152	Scales	1	0			
0305	5	10746	Mountain whitefish	295				2	FLOY	16100	WHITE
0305	5	10747	Mountain whitefish	310				2	PIT	000000243883	
0306	5	10748	Walleye	462	1214			0			
0306	5	10749	Mountain whitefish	353				2	PIT	000000248281	
0306	5	10750	Walleye	490	1440			0			
0306	5	10751	Mountain whitefish	366				2	PIT	4D00032903	
0306	5	10752	Mountain whitefish	403				2	FLOY	8901	YELLOW
0306	5	10753	Mountain whitefish	292				2	FLOY	2480	YELLOW
0306	5	10754	Mountain whitefish	310				2	PIT	000000092381	
0306	5	10755	Mountain whitefish	342				2	PIT	000000090305	
0306	5	10756	Mountain whitefish	371				2	FLOY	7442	YELLOW
0306	5	10757	Mountain whitefish	341				2	FLOY	7804	YELLOW
0306	5	10758	Mountain whitefish	267				2	PIT	000000084228	
0314	5	10759	Mountain whitefish	394				2	PIT	0A00747558	
0314	5	10760	Mountain whitefish	390				2	PIT	0A00727856	
0314	5	10761	Mountain whitefish	288				2	PIT	000000092389	
0314	5	10762	Mountain whitefish	263				2	PIT	000000248258	
0314	5	10763	Arctic grayling	249	204	Scales	2	0			
0314	5	10764	Mountain whitefish	397				2	PIT	000000247961	
0314	5	10765	Rainbow trout	214				0			
0314	5	10766	Mountain whitefish	296	262			2	PIT	000000085247	
0314	5	10767	Mountain whitefish	334				2	FLOY	11255	WHITE
0315	5	10768	Bull trout	533	1914	Fin Ray	4	0	PIT	000000091910	
0315	5	10769	Mountain whitefish	350				2	FLOY	13284	WHITE
0315	5	10770	Mountain whitefish	271				2	PIT	000000248307	
0315	5	10771	Mountain whitefish	324				2	FLOY	5620	YELLOW
0315	5	10772	Mountain whitefish	343				2	FLOY	15715	WHITE
0315	5	10773	Rainbow trout	307	378			0			
0315	5	10774	Mountain whitefish	282				2	PIT	000000246825	
0315	5	10775	Mountain whitefish	347				2	PIT	000000247994	
0315	5	10776	Mountain whitefish	302				2	PIT	000000248058	
0315	5	10777	Mountain whitefish	320				2	PIT	000000242954	
0315	5	10778	Mountain whitefish	336				2	PIT	0A00747754	
0315	5	10779	Mountain whitefish	301				2	PIT	000000084910	
0315	5	10780	Mountain whitefish	333				2	FLOY	13522	WHITE
0315	5	10781	Mountain whitefish	272				2	PIT	000000243418	
0315	5	10782	Mountain whitefish	296				2	PIT	000000242912	
0315	5	10783	Mountain whitefish	293				2	PIT	000000244315	
0315	5	10784	Mountain whitefish	289				2	PIT	000000248197	
0315	5	10785	Mountain whitefish	279				2	PIT	000000239376	
0315	5	10786	Mountain whitefish	276				2	PIT	000000246753	
0315	5	10787	Mountain whitefish	314				2	FLOY	16575	WHITE

Appendix C Table C1. Biological characteristics data for sampled fish, 2008 Peace River Fish Community Indexing Program.

Area and Site Label	Session	FishID	Common Name	Fork Length (mm)	Weight (gm)	Age Structure	Age	Capture Code	Tag		
									Type	Number	Colour
3											
0315	5	10788	Mountain whitefish	283				2	PIT	000000089024	
0315	5	10789	Mountain whitefish	308				2	PIT	000000244666	
0315	5	10790	Mountain whitefish	311				2	FLOY	15832	WHITE
0315	5	10791	Mountain whitefish	331				2	FLOY	11279	WHITE
0315	5	10792	Mountain whitefish	313				2	FLOY	16463	WHITE
0315	5	10793	Mountain whitefish	273				2	PIT	000000244352	
0307	5	10794	Mountain whitefish	322				2	PIT	000000079582	
0307	5	10795	Mountain whitefish	349				2	FLOY	8983	YELLOW
0307	5	10796	Mountain whitefish	282				2	PIT	000000245591	
0307	5	10797	Mountain whitefish	279				2	PIT	000000079878	
0307	5	10798	Mountain whitefish	361				2	FLOY	3045	YELLOW
0307	5	10799	Mountain whitefish	361				2	PIT	0A00751459	
0307	5	10800	Mountain whitefish	333				2	PIT	000000247024	
0307	5	10801	Mountain whitefish	261				2	PIT	000000244235	
0307	5	10802	Mountain whitefish	292				2	PIT	000000244617	
0307	5	10803	Mountain whitefish	284				2	PIT	000000244419	
0307	5	10804	Mountain whitefish	306				2	PIT	0A00712127	
0307	5	10805	Mountain whitefish	272				2	PIT	000000244663	
0307	5	10806	Mountain whitefish	343				2	FLOY	8151	YELLOW
0307	5	10807	Mountain whitefish	303				2	PIT	000000089659	
0307	5	10808	Mountain whitefish	279				2	PIT	000000246356	
0307	5	10809	Mountain whitefish	347				2	PIT	000000244948	
0307	5	10810	Mountain whitefish	280				2	PIT	000000243673	
0307	5	10811	Mountain whitefish	310				2	PIT	000000083684	
0308	5	10812	Mountain whitefish	356				2	PIT	0A00735847	
0308	5	10813	Mountain whitefish	322				2	PIT	0A00736141	
0308	5	10814	Mountain whitefish	414				2	PIT	000000247877	
0308	5	10815	Mountain whitefish	319				2	PIT	4D00024410	
0308	5	10816	Mountain whitefish	356				2	PIT	000000245955	
0308	5	10817	Mountain whitefish	357				2	PIT	0A00744449	
0308	5	10818	Mountain whitefish	313				2	PIT	000000243539	
0308	5	10819	Mountain whitefish	292				2	PIT	000000073196	
0308	5	10820	Mountain whitefish	354				2	PIT	000000245569	
0308	5	10821	Mountain whitefish	370				2	FLOY	13667	WHITE
0308	5	10822	Mountain whitefish	395				2	PIT	000000247870	
0308	5	10823	Mountain whitefish	308				2	FLOY	16186	WHITE
0308	5	10824	Mountain whitefish	283				2	PIT	000000246347	
0308	5	10825	Mountain whitefish	257				2	PIT	000000083829	
0308	5	10826	Mountain whitefish	287				2	PIT	000000243869	
0316	5	10827	Bull trout	567	2670	Fin Ray	4	0	PIT	000000092181	
0316	5	10828	Arctic grayling	352	600	Scales	3	0	PIT	000000085763	
0316	5	10829	Rainbow trout	167				0			
0316	5	10830	Arctic grayling	279		Scales	2	0	PIT	000000093024	
0316	5	10831	Rainbow trout	375	716			0			
0316	5	10832	Mountain whitefish	308				2	FLOY	9758	YELLOW
0316	5	10833	Mountain whitefish	328				2	FLOY	14721	WHITE
0316	5	10834	Mountain whitefish	349				2	PIT	000000244415	
0316	5	10835	Mountain whitefish	407				2	PIT	000000247870	
0316	5	10836	Mountain whitefish	272				2	PIT	000000086248	
0316	5	10837	Bull trout	342	410	Fin Ray	3	0	PIT	000000081816	
0316	5	10838	Mountain whitefish	299				2	PIT	0A00716016	
0316	5	10839	Mountain whitefish	324				2	FLOY	6059	YELLOW
0316	5	10840	Mountain whitefish	318				2	PIT	000000080006	
0316	5	10841	Mountain whitefish	265				2	PIT	000000084380	
0316	5	10842	Mountain whitefish	317				2	PIT	000000242972	
0316	5	10843	Mountain whitefish	322				2	PIT	4D00024410	
0316	5	10844	Mountain whitefish	300				2	PIT	000000244891	
0316	5	10845	Mountain whitefish	389				2	FLOY	9040	YELLOW
0316	5	10846	Mountain whitefish	292				2	PIT	000000246032	
0316	5	10847	Mountain whitefish	328				2	FLOY	10518	YELLOW
0316	5	10848	Mountain whitefish	335				2	PIT	000000242623	
0316	5	10849	Mountain whitefish	315				2	PIT	000000243712	
0316	5	10850	Mountain whitefish	286				2	PIT	000000245054	
0316	5	10851	Mountain whitefish	308				2	FLOY	6065	YELLOW

Appendix C Table C1. Biological characteristics data for sampled fish, 2008 Peace River Fish Community Indexing Program.

Area and Site Label	Session	FishID	Common Name	Fork Length (mm)	Weight (gm)	Age Structure	Age	Capture Code	Tag		
									Type	Number	Colour
3											
	0311	5	10852	Bull trout	382			2	PIT		000000239114
	0311	5	10853	Mountain whitefish	352			2	FLOY		7437 YELLOW
	0311	5	10854	Mountain whitefish	307			2	PIT		000000243128
	0311	5	10855	Bull trout	354			2	PIT		000000078706
	0311	5	10856	Mountain whitefish	359			2	FLOY		8906 YELLOW
	0311	5	10857	Mountain whitefish	288			2	PIT		000000243884
	0311	5	10858	Mountain whitefish	309			2	PIT		000000241809
	0311	5	10859	Bull trout	337			2	PIT		000000245676
	0311	5	10860	Arctic grayling	289			0	PIT		000000088273
	0311	5	10861	Mountain whitefish	339		Scales	2	FLOY		14853 WHITE
	0311	5	10862	Mountain whitefish	370			2	PIT		0A00731063
	0311	5	10863	Mountain whitefish	349			2	PIT		000000093434
	0309	5	10864	Bull trout	599			2	PIT		0A00734742
	0309	5	10865	Bull trout	511		Fin Ray	4	PIT		000000110917
	0309	5	10866	Arctic grayling	354		Scales	3	PIT		000000084613
	0309	5	10867	Mountain whitefish	424			2	FLOY		3088 YELLOW
	0309	5	10868	Mountain whitefish	317			2	PIT		000000104649
	0309	5	10869	Mountain whitefish	260			2	PIT		000000110074
	0309	5	10870	Mountain whitefish	378			2	FLOY		14832 WHITE
	0309	5	10871	Mountain whitefish	295			2	PIT		000000089128
	0309	5	10872	Mountain whitefish	303			2	PIT		000000246510
	0309	5	10873	Mountain whitefish	344			2	PIT		000000245601
	0309	5	10874	Mountain whitefish	361			2	PIT		000000246680
	0309	5	10875	Mountain whitefish	350			2	FLOY		13691 WHITE
	0310	5	10876	Rainbow trout	192			0			
	0310	5	10877	Arctic grayling	263		Scales	2	PIT		000000081476
	0310	5	10878	Mountain whitefish	428			2	FLOY		4508 YELLOW
	0310	5	10879	Mountain whitefish	360			2	PIT		000000246566
	0310	5	10880	Mountain whitefish	345			2	FLOY		16639 WHITE
	0310	5	10881	Mountain whitefish	383			2	PIT		000000243865
	0310	5	10882	Arctic grayling	209		Scales	1	0		
	0310	5	10883	Mountain whitefish	298			2	PIT		000000242328
	0310	5	10884	Bull trout	366		Fin Ray	3	PIT		000000077921
	0310	5	10885	Mountain whitefish	359			2	FLOY		3094 YELLOW
	0310	5	10886	Mountain whitefish	395			2	FLOY		15801 WHITE
	0310	5	10887	Mountain whitefish	365			2	PIT		0A00751834
	0310	5	10888	Mountain whitefish	335			2	PIT		0A00720933
	0310	5	10889	Mountain whitefish	349			2	FLOY		6203 YELLOW
	0310	5	10890	Mountain whitefish	321			2	PIT		000000243186
	0310	5	10891	Mountain whitefish	282			2	PIT		000000243503
	0310	5	10892	Mountain whitefish	275			2	PIT		000000244833
	0310	5	10893	Mountain whitefish	287			2	PIT		000000245934
	0312	5	10894	Bull trout	382			4	PIT		000000246344
	0312	5	10895	Bull trout	407		Fin Ray	5	0	PIT	000000090611
	0312	5	10896	Bull trout	463		Fin Ray	4	0	PIT	000000080500
	0312	5	10897	Bull trout	474		Fin Ray	5	0	PIT	000000087279
	0312	5	10898	Mountain whitefish	384			2	FLOY		12443 WHITE
	0312	5	10899	Mountain whitefish	337			2	FLOY		15807 WHITE
	0312	5	10900	Mountain whitefish	356			2	FLOY		13772 WHITE
	0312	5	10901	Mountain whitefish	325			2	FLOY		15814 WHITE
	0312	5	10902	Mountain whitefish	351			2	FLOY		12645 WHITE
	0312	5	10903	Mountain whitefish	391			2	FLOY		3142 YELLOW
	0312	5	10904	Bull trout	364		Fin Ray	3	0	PIT	000000081473
	0312	5	10905	Mountain whitefish	333			2	PIT		4D00020952
	0312	5	10906	Mountain whitefish	300			2	PIT		000000247752
	0312	5	10907	Mountain whitefish	365			2	FLOY		6209 YELLOW
	0312	5	10908	Mountain whitefish	269			2	PIT		000000082454
	0312	5	10909	Mountain whitefish	356			2	PIT		000000248031
	0312	5	10910	Mountain whitefish	294			2	PIT		000000244910
	0312	5	10911	Mountain whitefish	347			2	FLOY		14744 WHITE
	0312	5	10912	Mountain whitefish	280			2	PIT		000000246348
	0312	5	10913	Mountain whitefish	337			2	PIT		000000078460
	0312	5	10914	Mountain whitefish	282			2	PIT		000000247677
	0302	6	13053	Bull trout	460		Fin Ray	4	0	PIT	000000078427

Appendix C Table C1. Biological characteristics data for sampled fish, 2008 Peace River Fish Community Indexing Program.

Area and Site Label	Session	FishID	Common Name	Fork Length (mm)	Weight (gm)	Age Structure	Age	Capture Code	Tag			
									Type	Number	Colour	
3												
	0302	6	13054	Bull trout	390	558	Fin Ray	4	0	PIT	000000086246	
	0302	6	13055	Bull trout	253	164	Fin Ray/Scale	4	0	PIT	000000084908	
	0302	6	13056	Mountain whitefish	309				2	FLOY	13017	WHITE
	0302	6	13057	Mountain whitefish	372				2	PIT	000000244023	
	0302	6	13058	Mountain whitefish	270				2	PIT	000000093532	
	0302	6	13059	Mountain whitefish	345				2	PIT	0A00705879	
	0302	6	13060	Mountain whitefish	286				2	PIT	000000244432	
	0301	6	13061	Mountain whitefish	457				2	FLOY	14782	WHITE
	0301	6	13062	Mountain whitefish	327				2	PIT	4D00036233	
	0301	6	13063	Mountain whitefish	330				2	PIT	4D00031034	
	0301	6	13064	Rainbow trout	248	182			0			
	0301	6	13065	Mountain whitefish	330				2	PIT	4D00050348	
	0301	6	13066	Mountain whitefish	343				2	PIT	4D00034704	
	0301	6	13067	Mountain whitefish	273				2	PIT	000000245206	
	0301	6	13068	Mountain whitefish	330				2	PIT	000000243612	
	0301	6	13069	Mountain whitefish	279				2	PIT	000000248310	
	0301	6	13070	Mountain whitefish	282				2	PIT	000000244805	
	0303	6	13071	Arctic grayling	344	566	Scales	3	0	PIT	000000086323	
	0303	6	13072	Bull trout	383	506	Fin Ray	4	0	PIT	000000109513	
	0303	6	13073	Arctic grayling	281	288	Scales	2	0	PIT	000000087842	
	0303	6	13074	Arctic grayling	317	474	Scales	4	0	PIT	000000073240	
	0303	6	13075	Arctic grayling	189	84	Scales		0			
	0303	6	13076	Arctic grayling	351	532	Scales	3	0	PIT	000000082266	
	0303	6	13077	Bull trout	357	400	Fin Ray	4	0	PIT	000000093810	
	0303	6	13078	Mountain whitefish	392				2	PIT	4D00044227	
	0303	6	13079	Mountain whitefish	322				2	PIT	000000245527	
	0303	6	13080	Mountain whitefish	302				2	PIT	000000241855	
	0303	6	13081	Mountain whitefish	400				2	FLOY	16016	WHITE
	0303	6	13082	Mountain whitefish	332				2	PIT	000000243612	
	0303	6	13083	Mountain whitefish	298				2	PIT	000000244900	
	0303	6	13084	Mountain whitefish	309				2	PIT	000000244629	
	0303	6	13085	Mountain whitefish	293				2	PIT	0A00751925	
	0304	6	13086	Bull trout	553	1776	Fin Ray	5	0	PIT	000000087437	
	0304	6	13087	Arctic grayling	276	272	Scales		2	PIT	000000089112	
	0304	6	13088	Mountain whitefish	303				2	FLOY	10352	YELLOW
	0304	6	13089	Mountain whitefish	360				2	PIT	000000239597	
	0304	6	13090	Arctic grayling	266	242	Scales	2	0	PIT	000000090854	
	0304	6	13091	Arctic grayling	272	286	Scales	2	0	PIT	000000085375	
	0304	6	13092	Mountain whitefish	284				2	PIT	000000077240	
	0304	6	13093	Mountain whitefish	301				2	PIT	000000241322	
	0304	6	13094	Mountain whitefish	408				2	PIT	000000237722	
	0304	6	13095	Mountain whitefish	303				2	PIT	000000090193	
	0305	6	13096	Mountain whitefish	342				2	PIT	4D00020914	
	0305	6	13097	Mountain whitefish	336				2	FLOY	8947	YELLOW
	0305	6	13098	Mountain whitefish	340				2	FLOY	8921	YELLOW
	0305	6	13099	Mountain whitefish	387				2	FLOY	11412	WHITE
	0305	6	13100	Mountain whitefish	420				2	FLOY	3982	YELLOW
	0305	6	13101	Mountain whitefish	376				2	PIT	000000079041	
	0305	6	13102	Mountain whitefish	305				2	PIT	000000247811	
	0305	6	13103	Mountain whitefish	320				2	PIT	000000245697	
	0305	6	13104	Mountain whitefish	292				2	PIT	000000244223	
	0305	6	13105	Mountain whitefish	400				2	FLOY	10434	YELLOW
	0305	6	13106	Mountain whitefish	319				2	PIT	000000073249	
	0305	6	13107	Mountain whitefish	351				2	PIT	000000244409	
	0305	6	13108	Mountain whitefish	380				2	FLOY	11692	WHITE
	0305	6	13109	Mountain whitefish	357				2	FLOY	15553	WHITE
	0305	6	13110	Mountain whitefish	297				2	PIT	000000089128	
	0305	6	13111	Mountain whitefish	328				2	PIT	000000242667	
	0305	6	13112	Mountain whitefish	283				2	PIT	000000243689	
	0305	6	13113	Mountain whitefish	318				2	PIT	000000089133	
	0305	6	13114	Mountain whitefish	315				2	FLOY	3222	YELLOW
	0305	6	13115	Mountain whitefish	357				2	PIT	000000241591	
	0305	6	13116	Mountain whitefish	260				2	PIT	000000078454	
	0305	6	13117	Mountain whitefish	288				2	PIT	000000244836	

Appendix C Table C1. Biological characteristics data for sampled fish, 2008 Peace River Fish Community Indexing Program.

Area and Site Label	Session	FishID	Common Name	Fork Length (mm)	Weight (gm)	Age Structure	Age	Capture Code	Tag			
									Type	Number	Colour	
3												
	0305	6	13118	Mountain whitefish	287			2	PIT		000000090059	
	0305	6	13119	Bull trout	605			0	PIT		000000086491	
	0305	6	13120	Bull trout	245			2				
	0314	6	13121	Arctic grayling	271			0	PIT		000000084225	
	0314	6	13122	Rainbow trout	367			0				
	0314	6	13123	Mountain whitefish	275			2	PIT		000000243662	
	0314	6	13124	Mountain whitefish	321			2	PIT		000000087571	
	0314	6	13125	Mountain whitefish	316			2	PIT		000000083886	
	0314	6	13126	Rainbow trout	191	90		0				
	0314	6	13127	Mountain whitefish	293			2	PIT		000000248048	
	0315	6	13128	Mountain whitefish	411			2	FLOY	4382	YELLOW	
	0315	6	13129	Mountain whitefish	337			2	PIT		000000081359	
	0315	6	13130	Arctic grayling	218	134		0				
	0315	6	13131	Bull trout	268	192		2	PIT		000000248301	
	0315	6	13132	Mountain whitefish	333			2	PIT		000000238371	
	0315	6	13133	Mountain whitefish	338			2	FLOY	12281	WHITE	
	0315	6	13134	Mountain whitefish	345			2	PIT	0A00717378		
	0315	6	13135	Mountain whitefish	300			2	PIT		000000241888	
	0307	6	13136	Mountain whitefish	279			2	PIT		000000091226	
	0307	6	13137	Mountain whitefish	344			2	FLOY	9025	YELLOW	
	0307	6	13138	Mountain whitefish	392			2	PIT		000000243324	
	0307	6	13139	Mountain whitefish	355			2	PIT		000000246793	
	0307	6	13140	Mountain whitefish	363			2	PIT		000000242365	
	0307	6	13141	Mountain whitefish	361			2	PIT		000000078206	
	0307	6	13142	Mountain whitefish	310			2	PIT	0A00712127		
	0307	6	13143	Bull trout	335	404	Fin Ray	3	0	PIT	000000077780	
	0307	6	13144	Mountain whitefish	326			2	PIT	0A00727608		
	0307	6	13145	Mountain whitefish	280			2	PIT		000000243052	
	0307	6	13146	Mountain whitefish	293			2	PIT		000000244617	
	0307	6	13147	Mountain whitefish	304			2	PIT		000000246038	
	0307	6	13148	Bull trout	465	1034	Fin Ray	5	0	PIT	000000073278	
	0307	6	13149	Arctic grayling	212	114	Scales	1	0			
	0307	6	13150	Bull trout	659	3110		8	2	PIT	0A00711216	
	0307	6	13151	Mountain whitefish	345			2	PIT		000000084898	
	0307	6	13152	Mountain whitefish	286			2	PIT		000000240377	
	0307	6	13153	Mountain whitefish	313			2	FLOY	15761	WHITE	
	0308	6	13154	Bull trout	367	474		2	PIT		000000085851	
	0308	6	13155	Mountain whitefish	335			2	PIT	0A00745469		
	0308	6	13156	Mountain whitefish	337			2	FLOY	3219	YELLOW	
	0308	6	13157	Mountain whitefish	331			2	FLOY	3206	YELLOW	
	0308	6	13158	Mountain whitefish	287			2	PIT		000000078780	
	0308	6	13159	Mountain whitefish	288			2	PIT		000000238737	
	0308	6	13160	Mountain whitefish	440			2	PIT	4D00015129		
	0308	6	13161	Mountain whitefish	315			2	PIT		000000247761	
	0308	6	13162	Mountain whitefish	298			2	PIT		000000240782	
	0308	6	13163	Mountain whitefish	262			2	PIT		000000085136	
	0308	6	13164	Mountain whitefish	380			2	FLOY	7534	YELLOW	
	0308	6	13165	Mountain whitefish	337			2	PIT		000000247297	
	0308	6	13166	Mountain whitefish	330			2	PIT		000000238768	
	0316	6	13167	Bull trout	673	2740		10	2	FLOY	7879	YELLOW
	0316	6	13168	Bull trout	674	3190		9	2	PIT	0A00711441	
	0316	6	13169	Mountain whitefish	298			2	PIT		000000243443	
	0316	6	13170	Mountain whitefish	311			2	PIT		000000244710	
	0316	6	13171	Mountain whitefish	342			2	PIT		000000244487	
	0316	6	13172	Mountain whitefish	331			2	PIT	4D00027942		
	0316	6	13173	Mountain whitefish	337			2	FLOY	4410	YELLOW	
	0316	6	13174	Mountain whitefish	254			2	PIT		000000244235	
	0316	6	13175	Rainbow trout	191	84		0				
	0316	6	13176	Mountain whitefish	271			2	PIT	0A00724010		
	0316	6	13177	Rainbow trout	166	62		0				
	0316	6	13178	Mountain whitefish	400			2	FLOY	16182	WHITE	
	0316	6	13179	Mountain whitefish	366			2	FLOY	4313	YELLOW	
	0316	6	13180	Mountain whitefish	341			2	PIT	0A00747355		
	0316	6	13181	Mountain whitefish	295			2	FLOY	14737	WHITE	

Appendix C Table C1. Biological characteristics data for sampled fish, 2008 Peace River Fish Community Indexing Program.

Area and Site Label	Session	FishID	Common Name	Fork Length (mm)	Weight (gm)	Age Structure	Age	Capture Code	Tag				
									Type	Number	Colour		
3													
	0316	6	13182	Mountain whitefish	285			2	PIT		000000244042		
	0316	6	13183	Mountain whitefish	331			2	PIT		0A00734736		
	0316	6	13184	Rainbow trout	194			98	0				
	0316	6	13185	Rainbow trout	172			72	0				
	0306	6	13186	Mountain whitefish	374				2	PIT		000000088903	
	0306	6	13187	Mountain whitefish	311				2	PIT		000000247811	
	0306	6	13188	Arctic grayling	385		Scales	690	4	0	PIT	000000077090	
	0306	6	13189	Mountain whitefish	328				2	PIT		0A00710147	
	0306	6	13190	Mountain whitefish	373				2	PIT		000000246108	
	0306	6	13191	Bull trout	508		Fin Ray	1146	5	0	PIT	000000087564	
	0306	6	13192	Mountain whitefish	345				2	PIT		000000242961	
	0306	6	13193	Mountain whitefish	291				2	PIT		000000246670	
	0306	6	13194	Mountain whitefish	278				2	PIT		000000243689	
	0306	6	13195	Mountain whitefish	309				2	PIT		000000092381	
	0311	6	13196	Bull trout	338			400	2	PIT		000000245676	
	0311	6	13197	Bull trout	400			596	2	PIT		000000247516	
	0311	6	13198	Arctic grayling	262		Fin Ray	224	2	5			
	0311	6	13199	Bull trout	352			412	2	2	PIT	000000245914	
	0311	6	13200	Mountain whitefish	422				2	FLOY	14829	WHITE	
	0311	6	13201	Bull trout	397		Fin Ray	606	4	0	PIT	000000083631	
	0311	6	13202	Mountain whitefish	324				2	PIT	0A00733236		
	0311	6	13203	Mountain whitefish	327				2	FLOY	5620	YELLOW	
	0311	6	13204	Mountain whitefish	306				2	FLOY	13729	WHITE	
	0311	6	13205	Mountain whitefish	337				2	PIT	0A00745023		
	0311	6	13206	Northern pikeminnow	338				0				
	0311	6	13207	Arctic grayling	263		Scales	198	2	0	PIT	000000084515	
	0311	6	13208	Mountain whitefish	384				2	PIT	0A00732956		
	0311	6	13209	Mountain whitefish	313				2	PIT	000000247882		
	0311	6	13210	Mountain whitefish	353				2	FLOY	13717	WHITE	
	0311	6	13211	Mountain whitefish	317				2	PIT	000000083971		
	0311	6	13212	Mountain whitefish	338				2	PIT	0A00710771		
	0311	6	13213	Mountain whitefish	380				2	FLOY	4462	YELLOW	
	0311	6	13214	Mountain whitefish	285				2	PIT	000000078062		
	0309	6	13215	Mountain whitefish	311				2	PIT	0A00712134		
	0309	6	13216	Mountain whitefish	318				2	PIT	0A00727729		
	0309	6	13217	Mountain whitefish	348				2	PIT	0A00710769		
	0309	6	13218	Arctic grayling	278		Scales	308	2	0	PIT	000000082548	
	0309	6	13219	Mountain whitefish	296				2	PIT	4D00022031		
	0309	6	13220	Mountain whitefish	300				2	PIT	000000245399		
	0309	6	13221	Mountain whitefish	330				2	FLOY	10536	YELLOW	
	0309	6	13222	Mountain whitefish	285				2	PIT	000000239386		
	0309	6	13223	Mountain whitefish	377				2	FLOY	6214	YELLOW	
	0310	6	13224	Arctic grayling	274		Scales	268	2	0	PIT	000000079725	
	0310	6	13225	Mountain whitefish	410				2	PIT	000000243760		
	0310	6	13226	Mountain whitefish	307				2	PIT	000000242546		
	0310	6	13227	Mountain whitefish	273				2	PIT	000000091468		
	0312	6	13228	Walleye	466			1152	0				
	0312	6	13229	Walleye	400			728	0				
	0312	6	13230	Bull trout	739			3490	10	2	FLOY	16375	WHITE
	0312	6	13231	Arctic grayling	371		Scales	648	4	0	PIT	000000112342	
	0312	6	13232	Mountain whitefish	423				2	PIT	000000242057		
	0312	6	13233	Bull trout	480			1162	2	PIT	000000087279		
	0312	6	13234	Mountain whitefish	329				2	FLOY	13792	WHITE	
	0312	6	13235	Mountain whitefish	356				2	PIT	000000246005		
	0312	6	13236	Mountain whitefish	283				2	PIT	000000245821		
	0312	6	13237	Mountain whitefish	303				2	PIT	000000087825		
	0312	6	13238	Mountain whitefish	390				2	FLOY	10549	YELLOW	
	0312	6	13239	Mountain whitefish	292				2	PIT	000000245976		
	0312	6	13240	Mountain whitefish	415				2	PIT	000000245144		
	0312	6	13241	Mountain whitefish	363				2	FLOY	3101	YELLOW	
3 Lower Control													
	0304C	1	1251	Mountain whitefish	374		Scales	612		0			
	0304C	1	1252	Arctic grayling	313			402	4	0			
	0304C	1	1253	Mountain whitefish	309		Scales	296		0			

Appendix C Table C1. Biological characteristics data for sampled fish, 2008 Peace River Fish Community Indexing Program.

Area and Site Label	Session	FishID	Common Name	Fork Length (mm)	Weight (gm)	Age Structure	Age	Capture Code	Tag Type	Tag Number	Colour
3 Lower Control											
0304C	1	1254	Longnose sucker	380	688			0			
0304C	1	1255	Mountain whitefish	204	74	Scales		0			
0304C	1	1256	Mountain whitefish	216	102	Scales		0			
0304C	1	1257	Mountain whitefish	309	378	Scales		0			
0304C	1	1258	Mountain whitefish	188	74	Scales		0			
0304C	1	1259	Longnose sucker	386	832			0			
0304C	1	1260	Longnose sucker	419	936			0			
0304C	1	1261	Mountain whitefish	340	430	Scales		0			
0304C	1	1262	Mountain whitefish	372	542	Scales		0			
0304C	1	1263	Mountain whitefish	273	226	Scales		0			
0304C	1	1264	Mountain whitefish	320	408	Scales		0			
0304C	1	1265	Mountain whitefish	207	100	Scales		0			
0304C	1	1266	Mountain whitefish	189	80	Scales		0			
0304C	1	1267	Mountain whitefish	218	98	Scales		0			
0304C	1	1268	Mountain whitefish	196	80	Scales		0			
0304C	1	1269	Mountain whitefish	303	390	Scales		0			
0304C	1	1270	Bull trout	424	892	Fin Ray	5	0	PIT	000000248083	
0304C	1	1271	Mountain whitefish	292	314	Scales		0			
0304C	1	1272	Mountain whitefish	262	206	Scales		0			
0304C	1	1273	Mountain whitefish	270	254	Scales		0			
0304C	1	1274	Mountain whitefish	200	84	Scales		0			
0304C	1	1275	Mountain whitefish	202	90	Scales		0			
0304C	1	1276	Arctic grayling	356	596	Scales	3	0	PIT	000000247708	
0304C	1	1277	Mountain whitefish	273	248	Scales		0			
0304C	1	1278	Mountain whitefish	214	108	Scales		0			
0304C	1	1279	Mountain whitefish	194	98	Scales		0			
0304C	1	1280	Mountain whitefish	273	234	Scales		0			
0304C	1	1281	Rainbow trout	133	38			0			
0304C	1	1282	Mountain whitefish	205	102	Scales		0			
0304C	1	1283	Bull trout	309	324	Fin Ray	4	0	PIT	000000247866	
0304C	1	1284	Bull trout	684	4520	Fin Ray	7	0	PIT	000000247502	
0305C	1	1285	Longnose sucker	364	654			0			
0305C	1	1286	Rainbow trout	357	570			0			
0305C	1	1287	Rainbow trout	309	398			0			
0305C	1	1288	Longnose sucker	300	332			0			
0305C	1	1289	Longnose sucker	436	1068			0			
0305C	1	1290	Longnose sucker	361	544			0			
0305C	1	1291	Longnose sucker	366	610			0			
0305C	1	1292	Longnose sucker	367	658			0			
0305C	1	1293	Mountain whitefish	386	658	Scales		0			
0305C	1	1294	Mountain whitefish	458	925	Scales		0			
0305C	1	1295	Mountain whitefish	345	438	Scales		2	PIT	0A00736527	
0305C	1	1296	Mountain whitefish	434	866	Scales		0			
0305C	1	1297	Mountain whitefish	363	512	Scales		0			
0305C	1	1298	Mountain whitefish	335	442	Scales		0			
0305C	1	1299	Mountain whitefish	355	430	Scales		0			
0305C	1	1300	Mountain whitefish	352	480	Scales		0			
0305C	1	1301	Mountain whitefish	348	442	Scales		0			
0305C	1	1302	Longnose sucker	313	414			0			
0305C	1	1303	Mountain whitefish	318	394	Scales		0			
0305C	1	1304	Mountain whitefish	280	216	Scales		0			
0305C	1	1305	Mountain whitefish	404	632	Scales		0			
0305C	1	1306	Mountain whitefish	320	348	Scales		0			
0305C	1	1307	Mountain whitefish	373	556	Scales		0			
0305C	1	1308	Longnose sucker	358	566			0			
0305C	1	1309	Mountain whitefish	259	204	Scales		0			
0305C	1	1310	Mountain whitefish	268	320	Scales		0			
0305C	1	1311	Mountain whitefish	313	348	Scales		0			
0305C	1	1312	Mountain whitefish	351	450	Scales		2	FLOY	12702	WHITE
0305C	1	1313	Mountain whitefish	350	446	Scales		0			
0305C	1	1314	Longnose sucker	313	366			0			
0305C	1	1315	Mountain whitefish	354	518	Scales		0			
0305C	1	1316	Mountain whitefish	383	570	Scales		0			
0305C	1	1317	Mountain whitefish	314	372	Scales		0			

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Area and Site Label	Session	FishID	Common Name	Fork Length (mm)	Weight (gm)	Age Structure	Age	Capture Code	Type	Tag Number	Colour
3 Lower Control											
0305C	1	1318	Mountain whitefish	303	290	Scales		0			
0305C	1	1319	Longnose sucker	376	622			0			
0305C	1	1320	Mountain whitefish	287	250	Scales		0			
0305C	1	1321	Mountain whitefish	368	564	Scales		0			
0305C	1	1322	Mountain whitefish	253	158	Scales		0			
0305C	1	1323	Mountain whitefish	364	510	Scales		0			
0305C	1	1324	Mountain whitefish	282	246	Scales		0			
0305C	1	1325	Mountain whitefish	284	306	Scales		0			
0305C	1	1326	Mountain whitefish	293	236	Scales		0			
0305C	1	1327	Mountain whitefish	358	534	Scales		0			
0305C	1	1328	Mountain whitefish	205	94	Scales		0			
0305C	1	1329	Arctic grayling	272	246	Scales	2	0	PIT	000000247981	
0305C	1	1330	Mountain whitefish	270	256	Scales		0			
0305C	1	1331	Mountain whitefish	351	424	Scales		0			
0305C	1	1332	Mountain whitefish	275	240	Scales		0			
0305C	1	1333	Mountain whitefish	253	172	Scales		0			
0305C	1	1334	Mountain whitefish	201	84	Scales		0			
0305C	1	1335	Bull trout	398	632	Fin Ray	4	0	PIT	000000246517	
0305C	1	1336	Mountain whitefish	205	106	Scales		0			
0305C	1	1337	Mountain whitefish	203	82	Scales		0			
0305C	1	1338	Bull trout	410	780	Fin Ray	4	0	PIT	000000247385	
0305C	1	1339	Mountain whitefish	275	236	Scales		0			
0305C	1	1340	Mountain whitefish	318	328	Scales		0			
0305C	1	1341	Mountain whitefish	265	196	Scales		0			
0305C	1	1342	Arctic grayling	307	332	Scales	2	0			
0305C	1	1343	Mountain whitefish	323	358	Scales		0			
0305C	1	1344	Longnose sucker	311	386			0			
0305C	1	1345	Longnose sucker	316	376			0			
0305C	1	1346	Mountain whitefish	313	362	Scales		0			
0305C	1	1347	Mountain whitefish	249	168	Scales		0			
0305C	1	1348	Arctic grayling	178	62	Scales	1	0			
0305C	1	1349	Mountain whitefish	295	258	Scales		0			
0305C	1	1350	Mountain whitefish	293	262	Scales		0			
0305C	1	1351	Mountain whitefish	246	156	Scales		0			
0305C	1	1352	Longnose sucker	330	488			0			
0305C	1	1353	Mountain whitefish	317	366	Scales		0			
0305C	1	1354	Mountain whitefish	303	290	Scales		0			
0305C	1	1355	Mountain whitefish	270	198	Scales		0			
0305C	1	1356	Mountain whitefish	371	460	Scales		0			
0305C	1	1357	Mountain whitefish	233	132	Scales		0			
0305C	1	1358	Mountain whitefish	212	98	Scales		0			
0305C	1	1359	Mountain whitefish	234	134	Scales		0			
0305C	1	1360	Mountain whitefish	358	474	Scales	2		FLOY	1650	YELLOW
0305C	1	1361	Mountain whitefish	200	94	Scales		0			
0305C	1	1362	Mountain whitefish	217	104	Scales		0			
0305C	1	1363	Mountain whitefish	201	82	Scales		0			
0305C	1	1364	Mountain whitefish	197	84	Scales		0			
3 Upper Control											
0308C	1	813	Largescale sucker	442	1312			0			
0308C	1	814	Largescale sucker	503	1628			0			
0308C	1	815	Mountain whitefish	218	118	Scales		0			
0308C	1	816	Mountain whitefish	209	106	Scales		0			
0308C	1	817	Largescale sucker	457	1388			0			
0308C	1	818	Mountain whitefish	360	484	Scales	2		FLOY	10097	YELLOW
0308C	1	819	Mountain whitefish	262	224	Scales		0			
0308C	1	820	Mountain whitefish	237	144	Scales		0			
0308C	1	821	Mountain whitefish	197	86	Scales		0			
0308C	1	822	Mountain whitefish	149	48	Scales		0			
0308C	1	823	Mountain whitefish	315	394	Scales		0			
0308C	1	824	Mountain whitefish	270	232	Scales		0			
0308C	1	825	Mountain whitefish	243	184	Scales		0			
0308C	1	826	Mountain whitefish	307	328	Scales		0			
0308C	1	827	Mountain whitefish	310	322	Scales		0			
0308C	1	828	Mountain whitefish	215	108	Scales		0			

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Area and Site Label	Session	FishID	Common Name	Fork Length (mm)	Weight (gm)	Age Structure	Age	Capture Code	Tag		
									Type	Number	Colour
3 Upper Control											
0308C	1	829	Mountain whitefish	164	46	Scales		0			
0308C	1	830	Arctic grayling	243	206	Scales	2	0			
0308C	1	831	Arctic grayling	282	294	Scales	2	0			
0308C	1	832	Arctic grayling	149	44	Scales	1	0			
0308C	1	833	Arctic grayling	267	278	Scales	3	0			
0308C	1	834	Arctic grayling	270	284	Scales	2	0			
0308C	1	835	Arctic grayling	346	480	Scales	3	0			
0308C	1	836	Longnose sucker	327	506			0			
0308C	1	837	Mountain whitefish	285	284	Scales		0			
0308C	1	838	Mountain whitefish	233	124	Scales		0			
0308C	1	839	Arctic grayling	277	260	Scales	2	0			
0308C	1	840	Mountain whitefish	325	416	Scales		0			
0308C	1	841	Mountain whitefish	304	324	Scales		0			
0308C	1	842	Mountain whitefish	214	94	Scales		0			
0308C	1	843	Mountain whitefish	351	438	Scales		0			
0308C	1	844	Mountain whitefish	323	356	Scales		0			
0308C	1	845	Mountain whitefish	189	80	Scales		0			
0308C	1	846	Mountain whitefish	384	598	Scales		0			
0308C	1	847	Mountain whitefish	313	290	Scales		0			
0308C	1	848	Mountain whitefish	314	324	Scales		0			
0308C	1	849	Mountain whitefish	229	170	Scales		0			
0308C	1	850	Mountain whitefish	157	46	Scales		0			
0308C	1	851	Mountain whitefish	200	84	Scales		0			
0308C	1	852	Mountain whitefish	353	396	Scales		0			
0308C	1	853	Mountain whitefish	334	386	Scales		0			
0308C	1	854	Mountain whitefish	303	290	Scales		0			
0308C	1	855	Mountain whitefish	287	272	Scales		0			
0308C	1	856	Mountain whitefish	248	158	Scales		0			
0308C	1	857	Mountain whitefish	215	116	Scales		0			
0307C	1	858	Mountain whitefish	438	788	Scales		0	PIT	:000000248274	
0307C	1	859	Mountain whitefish	385	606	Scales		0	PIT	:000000248162	
0307C	1	860	Mountain whitefish	295	274	Scales		0	PIT	:000000247944	
0307C	1	861	Mountain whitefish	293	338	Scales		0			
0307C	1	862	Mountain whitefish	252	164	Scales		0	PIT	:000000248029	
0307C	1	863	Mountain whitefish	204	92	Scales		0	PIT	:000000247816	
0307C	1	864	Mountain whitefish	214	106	Scales		0	PIT	:000000247596	
0307C	1	865	Mountain whitefish	394	668	Scales		0	PIT	:000000248013	
0307C	1	866	Mountain whitefish	343	494	Scales		0	PIT	:000000247956	
0307C	1	867	Mountain whitefish	332	382	Scales		0	PIT	:000000247788	
0307C	1	868	Mountain whitefish	326	316	Scales		0			
0307C	1	869	Mountain whitefish	383		Scales		0			
0307C	1	870	Mountain whitefish	296	254	Scales		0			
0307C	1	871	Mountain whitefish	187	64	Scales		0			
5											
0508	1	2217	Longnose sucker	380	740			0			
0508	1	2218	Longnose sucker	422	1014			0			
0508	1	2219	Longnose sucker	398	876			0			
0508	1	2220	Largescale sucker	510	1890			0			
0508	1	2221	Longnose sucker	404	864			0			
0508	1	2222	Longnose sucker	250	206			0			
0508	1	2223	Longnose sucker	426	966			0			
0508	1	2224	Arctic grayling	366	770	Scales	4	0	PIT	:000000247897	
0508	1	2225	Mountain whitefish	363	518	Scales	4	0	PIT	:000000247978	
0508	1	2226	Mountain whitefish	393	700	Scales		2	PIT	:000000244952	
0508	1	2227	Mountain whitefish	340	424	Scales		5	PIT	:000000247534	
0508	1	2228	Mountain whitefish	339	450	Scales		0	PIT	:000000247353	
0508	1	2229	Mountain whitefish	376	512	Scales		0	PIT	:000000247327	
0508	1	2230	Rainbow trout	322	416			0			
0508	1	2231	Arctic grayling	344	544	Scales	3	0	PIT	:000000247646	
0508	1	2232	Arctic grayling	381	714	Scales	4	0	PIT	:000000247650	
0508	1	2233	Mountain whitefish	420	776	Scales		0	PIT	:000000247774	
0508	1	2234	Arctic grayling	372	660	Scales	4	0	PIT	:000000248053	
0508	1	2235	Mountain whitefish	259	192	Scales		0	PIT	:000000247438	
0508	1	2236	Arctic grayling	324	414	Scales	3	2	PIT	:000000237861	

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Area and Site Label	Session	FishID	Common Name	Fork Length (mm)	Weight (gm)	Age Structure	Age	Capture Code	Tag			
									Type	Number	Colour	
5												
	0508	1	2237	Mountain whitefish	331	424	Scales		2	PIT	0A00725925	
	0508	1	2238	Rainbow trout	406	806			0			
	0508	1	2239	Mountain whitefish	361	554	Scales	8	2	PIT	0A00722020	
	0508	1	2240	Bull trout	401	604	Fin Ray	4	0	PIT	000000248141	
	0508	1	2241	Mountain whitefish	302	322	Scales		0	PIT	000000247631	
	0508	1	2242	Mountain whitefish	315	370	Scales		0	PIT	000000248165	
	0508	1	2243	Mountain whitefish	361	478	Scales	6	0	PIT	000000247815	
	0508	1	2244	Mountain whitefish	348	498	Scales		2	FLOY	14046	WHITE
	0508	1	2245	Arctic grayling	397	364	Scales	3	0			
	0508	1	2246	Longnose sucker	348	542			0			
	0508	1	2247	Mountain whitefish	199	78	Scales		0			
	0508	1	2248	Mountain whitefish	176	64	Scales	2	0			
	0508	1	2249	Arctic grayling	188	70	Scales	1	0			
	0508	1	2250	Mountain whitefish	226	110	Scales		0			
	0508	1	2251	Mountain whitefish	358	424	Scales		0	PIT	000000247321	
	0508	1	2252	Mountain whitefish	189	68	Scales		0			
	0508	1	2253	Mountain whitefish	174	50	Scales		0			
	0508	1	2254	Mountain whitefish	306	314	Scales		2	PIT	0A00716655	
	0508	1	2255	Mountain whitefish	189	70	Scales		0			
	0508	1	2256	Mountain whitefish	194	74	Scales		0			
	0508	1	2257	Mountain whitefish	192	74	Scales	2	0			
	0508	1	2258	Mountain whitefish	324	410	Scales		0	PIT	000000248171	
	0508	1	2259	Mountain whitefish	144	34	Scales		0			
	0508	1	2260	Longnose sucker	223	168			0			
	0508	1	2261	Arctic grayling	236	170	Scales	2	0			
	0508	1	2262	Longnose sucker	220	128			0			
	0508	1	2263	Arctic grayling	191	86	Scales	1	0			
	0508	1	2264	Mountain whitefish	183	62	Scales		0			
	0508	1	2265	Mountain whitefish	186	74	Scales		0			
	0508	1	2266	Mountain whitefish	72				1			
	0508	1	2267	Mountain whitefish	188	64	Scales		0			
	0508	1	2268	Mountain whitefish	185	72	Scales		0			
	0508	1	2269	Largescale sucker	163	56			0			
	0508	1	2270	Longnose sucker	135	36			0			
	0508	1	2271	Mountain whitefish	133	22	Scales		0			
	0508	1	2272	Mountain whitefish	142	28	Scales		0			
	0508	1	2273	Mountain whitefish	191	84	Scales		0			
	0508	1	2274	Mountain whitefish	243	158	Scales		0			
	0508	1	2275	Mountain whitefish	239	144	Scales		0			
	0508	1	2276	Kokanee	128	24			0			
	0508	1	2277	Mountain whitefish	185	62	Scales		0			
	0508	1	2278	Longnose sucker	128	34			0			
	0508	1	2279	Mountain whitefish	200	80	Scales	2	0			
	0508	1	2280	Longnose sucker	177	72			0			
	0508	1	2281	Mountain whitefish	135	26	Scales		0			
	0508	1	2282	Longnose sucker	146	30			0			
	0508	1	2283	Largescale sucker	117	16			0			
	0508	1	2284	Longnose sucker	225	142			0			
	0508	1	2285	Mountain whitefish	180	60	Scales		0			
	0508	1	2286	Mountain whitefish	185	70	Scales		0			
	0508	1	2287	Mountain whitefish	173	56	Scales		0			
	0508	1	2288	Mountain whitefish	177	64	Scales		0			
	0508	1	2289	Mountain whitefish	178	62	Scales		0			
	0508	1	2290	Mountain whitefish	147	40	Scales		0			
	0503	1	2291	Arctic grayling	394	754	Scales	7	2	FLOY	13823	WHITE
	0503	1	2292	Mountain whitefish	414	674	Scales		0	PIT	000000247422	
	0503	1	2293	Mountain whitefish	322	432	Scales		0	PIT	000000248246	
	0503	1	2294	Longnose sucker	379	746			0			
	0503	1	2295	Longnose sucker	346	600			0			
	0503	1	2296	Arctic grayling	389	746	Scales	4	0	PIT	000000248223	
	0503	1	2297	Longnose sucker	395	742			0			
	0503	1	2298	Bull trout	355	430	Fin Ray	4	0	PIT	000000247540	
	0503	1	2299	Mountain whitefish	420	892	Scales		0	PIT	000000247555	
	0503	1	2300	Longnose sucker	298	382			0			

Appendix C Table C1. Biological characteristics data for sampled fish, 2008 Peace River Fish Community Indexing Program.

Area and Site Label	Session	FishID	Common Name	Fork Length (mm)	Weight (gm)	Age Structure	Age	Capture Code	Tag		
									Type	Number	Colour
5											
0503	1	2301	Longnose sucker	236	162			0			
0503	1	2302	Mountain whitefish	389	650	Scales		0	PIT	000000247802	
0503	1	2303	Longnose sucker	383	746			0			
0503	1	2304	Mountain whitefish	319	386	Scales		0	PIT	000000248135	
0503	1	2305	Mountain whitefish	372	504	Scales		0	PIT	000000247623	
0503	1	2306	Longnose sucker	392	578			0			
0503	1	2307	Mountain whitefish	335	446	Scales		0	PIT	000000247874	
0503	1	2308	Mountain whitefish	322	394	Scales		0	PIT	000000247856	
0503	1	2309	Arctic grayling	279	286	Scales	2	0	PIT	000000247955	
0503	1	2310	Mountain whitefish	334	388	Scales		2	PIT	0A00726472	
0503	1	2311	Mountain whitefish	314	328	Scales		0	PIT	000000247416	
0503	1	2312	Longnose sucker	305	362			0			
0503	1	2313	Mountain whitefish	314	350	Scales		2	PIT	4D00015658	
0503	1	2314	Mountain whitefish	302	330	Scales		0	PIT	000000247407	
0503	1	2315	Mountain whitefish	360	440	Scales		0	PIT	000000248052	
0503	1	2316	Mountain whitefish	296	312	Scales		0	PIT	000000247782	
0503	1	2317	Mountain whitefish	288	260	Scales		0	PIT	000000247451	
0503	1	2318	Mountain whitefish	280	226	Scales		0	PIT	000000247457	
0503	1	2319	Mountain whitefish	265	242	Scales		0	PIT	000000247386	
0503	1	2320	Mountain whitefish	269	270	Scales	4	0	PIT	000000247558	
0503	1	2321	Mountain whitefish	286	276	Scales		0	PIT	000000247953	
0503	1	2322	Longnose sucker	208	142			0			
0503	1	2323	Mountain whitefish	269	230	Scales		0	PIT	000000248229	
0503	1	2324	Mountain whitefish	271	240	Scales		0	PIT	000000247928	
0503	1	2325	Mountain whitefish	226	114	Scales		0			
0503	1	2326	Mountain whitefish	225	132	Scales		0			
0503	1	2327	Mountain whitefish	202	84	Scales		0			
0503	1	2328	Mountain whitefish	208	98	Scales		0			
0503	1	2329	Mountain whitefish	154	40	Scales		0			
0503	1	2330	Mountain whitefish	186	64	Scales		0			
0503	1	2331	Mountain whitefish	185	70	Scales		0			
0503	1	2332	Mountain whitefish	146	36	Scales		0			
0503	1	2333	Longnose sucker	189	84			0			
0503	1	2334	Mountain whitefish	183	68	Scales		0			
0501	1	2335	Northern pike	472	786			0			
0501	1	2336	Longnose sucker	354	602			0			
0501	1	2337	Longnose sucker	404	824			0			
0501	1	2338	Largescale sucker	388	770			0			
0501	1	2339	Longnose sucker	328	564			0			
0501	1	2340	Longnose sucker	295	380			0			
0501	1	2341	Mountain whitefish	404	700	Scales		0	PIT	000000248218	
0501	1	2342	Mountain whitefish	354	508	Scales		0	PIT	000000247599	
0501	1	2343	Mountain whitefish	367	502	Scales		2	FLOY	15027	WHITE
0501	1	2344	Mountain whitefish	429	852	Scales		0	PIT	000000247508	
0501	1	2345	Mountain whitefish	386	586	Scales		0	PIT	000000247725	
0501	1	2346	Mountain whitefish	378	558	Scales		2	PIT	0A00747657	
0501	1	2347	Mountain whitefish	334	442	Scales		0	PIT	000000247762	
0501	1	2348	Mountain whitefish	181	56	Scales		0			
0501	1	2349	Mountain whitefish	294	374	Scales		0			
0501	1	2350	Mountain whitefish	284	240	Scales		0	PIT	000000247776	
0501	1	2351	Mountain whitefish	344	450	Scales		0	PIT	000000248018	
0501	1	2352	Mountain whitefish	347	450	Scales	7	0	PIT	000000248245	
0501	1	2353	Mountain whitefish	252	192	Scales		0	PIT	000000247342	
0501	1	2354	Mountain whitefish	267	206	Scales		0	PIT	000000247452	
0501	1	2355	Mountain whitefish	188	78	Scales		0			
0501	1	2356	Mountain whitefish	184	70	Scales		0			
0501	1	2357	Mountain whitefish	190	74	Scales		0			
0501	1	2358	Mountain whitefish	204	84	Scales	2	0			
0501	1	2359	Mountain whitefish	149	34	Scales		0			
0501	1	2360	Mountain whitefish	184	70	Scales		0			
0501	1	2361	Mountain whitefish	197	68	Scales		0			
0501	1	2362	Longnose sucker	270	220			0			
0501	1	2363	Mountain whitefish	187	84	Scales		0			
0501	1	2364	Mountain whitefish	147	34	Scales		0			

Appendix C Table C1. Biological characteristics data for sampled fish, 2008 Peace River Fish Community Indexing Program.

Area and Site Label	Session	FishID	Common Name	Fork Length (mm)	Weight (gm)	Age Structure	Age	Capture Code	Tag		
									Type	Number	Colour
5											
	0501	1	2365	Longnose sucker	146			0			
	0501	1	2366	Arctic grayling	153			0			
	0501	1	2367	Mountain whitefish	207			0			
	0501	1	2368	Mountain whitefish	182			0			
	0501	1	2369	Longnose sucker	170			0			
	0501	1	2370	Mountain whitefish	82			0			
	0501	1	2371	Mountain whitefish	239			0			
	0501	1	2372	Mountain whitefish	150			0			
	0501	1	2373	Bull trout	544			0	PIT		:000000248035
	0502	1	2374	Northern pike	705			0			
	0502	1	2375	Mountain whitefish	368			0	PIT		:000000248146
	0502	1	2376	Arctic grayling	326			0	PIT		:000000247880
	0502	1	2377	Mountain whitefish	335			0	PIT		:000000247809
	0502	1	2378	Mountain whitefish	343			2	PIT		0A00727623
	0502	1	2379	Mountain whitefish	305			2	PIT		0A00735932
	0502	1	2380	Arctic grayling	358			0	PIT		:000000247806
	0502	1	2381	Longnose sucker	235			0			
	0502	1	2382	Mountain whitefish	345			2	FLOY		16237 WHITE
	0502	1	2383	Mountain whitefish	340			0	PIT		:000000247429
	0502	1	2384	Arctic grayling	315			0	PIT		:000000246764
	0502	1	2385	Mountain whitefish	325			0	PIT		:000000247872
	0502	1	2386	Arctic grayling	326			2	PIT		:000000246002
	0502	1	2387	Mountain whitefish	338			0	PIT		:000000247908
	0502	1	2388	Bull trout	232			0			
	0502	1	2389	Mountain whitefish	302			0	PIT		:000000247686
	0502	1	2390	Longnose sucker	215			0			
	0502	1	2391	Mountain whitefish	324			0	PIT		:000000247494
	0502	1	2392	Rainbow trout	285			0			
	0502	1	2393	Mountain whitefish	304			2	FLOY		13849 WHITE
	0502	1	2394	Mountain whitefish	288			0	PIT		:000000247989
	0502	1	2395	Mountain whitefish	261			0	PIT		:000000247417
	0502	1	2396	Mountain whitefish	294			2	PIT		:000000237848
	0502	1	2397	Mountain whitefish	334			2	PIT		0A00724453
	0502	1	2398	Mountain whitefish	255			0	PIT		:000000247443
	0502	1	2399	Mountain whitefish	211			0			
	0502	1	2400	Mountain whitefish	224			0			
	0502	1	2401	Mountain whitefish	221			0			
	0502	1	2402	Mountain whitefish	199			0			
	0502	1	2403	Mountain whitefish	204			0			
	0502	1	2404	Mountain whitefish	264			0	PIT		:000000248249
	0502	1	2405	Mountain whitefish	210			0			
	0502	1	2406	Mountain whitefish	198			0			
	0502	1	2407	Mountain whitefish	181			0			
	0502	1	2408	Mountain whitefish	265			0	PIT		:000000248061
	0502	1	2409	Mountain whitefish	207			0			
	0502	1	2410	Mountain whitefish	187			0			
	0502	1	2411	Mountain whitefish	195			0			
	0502	1	2412	Mountain whitefish	238			0			
	0502	1	2413	Mountain whitefish	238			0			
	0502	1	2414	Mountain whitefish	220			0			
	0502	1	2415	Mountain whitefish	185			0			
	0502	1	2416	Mountain whitefish	262			0	PIT		:000000248046
	0502	1	2417	Mountain whitefish	137			0			
	0502	1	2418	Mountain whitefish	180			0			
	0502	1	2419	Mountain whitefish	188			0			
	0502	1	2420	Mountain whitefish	174			0			
	0502	1	2421	Mountain whitefish	130			0			
	0507	1	2422	Mountain whitefish	355			0	PIT		:000000247665
	0507	1	2423	Longnose sucker	285			0			
	0507	1	2424	Longnose sucker	380			0			
	0507	1	2425	Longnose sucker	399			0			
	0507	1	2426	Longnose sucker	334			0			
	0507	1	2427	Longnose sucker	365			0			
	0507	1	2428	Mountain whitefish	312			0	PIT		:000000247314

Appendix C Table C1. Biological characteristics data for sampled fish, 2008 Peace River Fish Community Indexing Program.

Area and Site Label	Session	FishID	Common Name	Fork Length (mm)	Weight (gm)	Age Structure	Age	Capture Code	Tag		
									Type	Number	Colour
5	0507	1	2429	Mountain whitefish	355	458	Scales				
	0507	1	2430	Mountain whitefish	362	526	Scales	2	PIT	0A00711225	
	0507	1	2431	Mountain whitefish	334	444	Scales	7	0	PIT	000000247749
	0507	1	2432	Longnose sucker	372	674			0		
	0507	1	2433	Longnose sucker	317	394			0		
	0507	1	2434	Mountain whitefish	288	258	Scales	0	PIT	000000243364	
	0507	1	2435	Mountain whitefish	305	318	Scales	0	PIT	000000247670	
	0507	1	2436	Mountain whitefish	413	688	Scales	0	PIT	000000247945	
	0507	1	2437	Mountain whitefish	386	574	Scales	0	PIT	000000247699	
	0507	1	2438	Mountain whitefish	295	276	Scales	0	PIT	000000246987	
	0507	1	2439	Mountain whitefish	310	304	Scales	2	FLOY		1623 YELLOW
	0507	1	2440	Mountain whitefish	266	232	Scales	0	PIT	000000247602	
	0507	1	2441	Mountain whitefish	268	242	Scales	4	0	PIT	000000247906
	0507	1	2442	Mountain whitefish	168	46	Scales		0		
	0507	1	2443	Mountain whitefish	198	96	Scales		0		
	0507	1	2444	Mountain whitefish	180	60	Scales		0		
	0507	1	2445	Mountain whitefish	148	32	Scales		0		
	0507	1	2446	Mountain whitefish	83	4	Scales	0	0		
	0507	1	2447	Mountain whitefish	185	68	Scales		0		
	0507	1	2448	Mountain whitefish	303	352	Scales		0		
	0507	1	2449	Mountain whitefish	144	32	Scales		0		
	0505	1	2450	Longnose sucker	442	888			0		
	0505	1	2451	Longnose sucker	401	852			0		
	0505	1	2452	Longnose sucker	383	772			0		
	0505	1	2453	Longnose sucker	403	854			0		
	0505	1	2454	Longnose sucker	414	854			0		
	0505	1	2455	Longnose sucker	318	396			0		
	0505	1	2456	Longnose sucker	378	756			0		
	0505	1	2457	Longnose sucker	387	722			0		
	0505	1	2458	Longnose sucker	400	952			0		
	0505	1	2459	Largescale sucker	451	1330			0		
	0505	1	2460	Longnose sucker	313	408			0		
	0505	1	2461	Longnose sucker	227	174			0		
	0505	1	2462	Longnose sucker	392	852			0		
	0505	1	2463	Arctic grayling	401	760	Scales	5	2	PIT	000000244870
	0505	1	2464	Arctic grayling	327	470	Scales	3	0	PIT	000000248182
	0505	1	2465	Arctic grayling	334	480	Scales	3	0	PIT	000000248090
	0505	1	2466	Longnose sucker	312	370			0		
	0505	1	2467	Longnose sucker	362	638			0		
	0505	1	2468	Mountain whitefish	398	674	Scales		0	PIT	000000247902
	0505	1	2469	Mountain whitefish	341	460	Scales	2	PIT	000000248018	
	0505	1	2470	Mountain whitefish	252	180	Scales	0	PIT	000000247950	
	0505	1	2471	Mountain whitefish	393	666	Scales	2	FLOY		12748 WHITE
	0505	1	2472	Rainbow trout	416	758			0		
	0505	1	2473	Mountain whitefish	337	436	Scales	5	PIT	000000247604	
	0505	1	2474	Mountain whitefish	283	284	Scales		0	PIT	000000247701
	0505	1	2475	Rainbow trout	342	470			0		
	0505	1	2476	Mountain whitefish	308	308	Scales		0	PIT	000000247817
	0505	1	2477	Mountain whitefish	368	522	Scales		0		
	0505	1	2478	Mountain whitefish	254	190	Scales	3	0		
	0505	1	2479	Mountain whitefish	304	342	Scales		0	PIT	000000247932
	0505	1	2480	Mountain whitefish	338	426	Scales		0	PIT	000000247341
	0505	1	2481	Mountain whitefish	307	332	Scales		0	PIT	000000247744
	0505	1	2482	Arctic grayling	292	412	Scales	4	2	PIT	000000237828
	0505	1	2483	Longnose sucker	222	142			0		
	0505	1	2484	Mountain whitefish	287	338	Scales		0		
	0505	1	2485	Arctic grayling	350	532	Scales	4	2	PIT	000000239152
	0505	1	2486	Mountain whitefish	367	460	Scales		0	PIT	000000248191
	0505	1	2487	Mountain whitefish	201	90	Scales		0		
	0505	1	2488	Longnose sucker	247	186			0		
	0505	1	2489	Mountain whitefish	307	330	Scales		0	PIT	000000247409
	0505	1	2490	Mountain whitefish	365	542	Scales		0	PIT	000000247998
	0505	1	2491	Mountain whitefish	317	400	Scales		0	PIT	000000247580
	0505	1	2492	Mountain whitefish	328	342	Scales		0	PIT	000000248027

Appendix C Table C1. Biological characteristics data for sampled fish, 2008 Peace River Fish Community Indexing Program.

Area and Site Label	Session	FishID	Common Name	Fork Length (mm)	Weight (gm)	Age Structure	Age	Capture Code	Tag Type	Tag Number	Colour
5											
	0505	1	2493	Mountain whitefish	242	160	Scales		0		
	0505	1	2494	Longnose sucker	224	140			0		
	0505	1	2495	Longnose sucker	217	146			0		
	0505	1	2496	Longnose sucker	214	128			0		
	0505	1	2497	Mountain whitefish	171	62	Scales		0		
	0505	1	2498	Mountain whitefish	200	84	Scales	2	0		
	0505	1	2499	Mountain whitefish	145	32	Scales		0		
	0505	1	2500	Mountain whitefish	146	34	Scales		0		
	0505	1	2501	Mountain whitefish	258	212	Scales	4	0	PIT	000000248012
	0505	1	2502	Mountain whitefish	268	230	Scales		0	PIT	000000247571
	0505	1	2503	Mountain whitefish	283	266	Scales		2	PIT	000000247989
	0505	1	2504	Longnose sucker	115				0		
	0506	1	2505	Mountain whitefish	339	504	Scales		2	PIT	4D00027021
	0506	1	2506	Mountain whitefish	358	546	Scales		2	PIT	000000243597
	0506	1	2507	Longnose sucker	290	348			0		
	0506	1	2508	Mountain whitefish	381	576	Scales		0	PIT	000000247538
	0506	1	2509	Walleye	400	686			0		
	0506	1	2510	Longnose sucker	248	186			0		
	0506	1	2511	Mountain whitefish	290	274	Scales	4	0	PIT	000000247924
	0506	1	2512	Longnose sucker	244	172			0		
	0506	1	2513	White sucker	370	684			0		
	0506	1	2514	White sucker	280	294			0		
	0506	1	2515	Mountain whitefish	350	488	Scales		0	PIT	000000247028
	0506	1	2516	Mountain whitefish	315	372	Scales		0	PIT	000000248231
	0506	1	2517	Longnose sucker	250	172			0		
	0506	1	2518	Mountain whitefish	278	234	Scales		0	PIT	000000247925
	0506	1	2519	Longnose sucker	242	164			0		
	0506	1	2520	Kokanee	120	12			0		
	0506	1	2521	Northern pikeminnow	250	188			0		
	0506	1	2522	Mountain whitefish	222	124	Scales		0		
	0506	1	2523	Mountain whitefish	146	38	Scales		0		
	0506	1	2524	Mountain whitefish	147	34	Scales		0		
	0506	1	2525	Mountain whitefish	194	84	Scales		0		
	0506	1	2526	Longnose sucker	155	50			0		
	0506	1	2527	Longnose sucker	231	160			0		
	0509	1	2528	Rainbow trout	367	580			0		
	0509	1	2529	Arctic grayling	308	404	Scales	3	0	PIT	000000247757
	0509	1	2530	Arctic grayling	357	518	Scales	4	0	PIT	000000248097
	0509	1	2531	Arctic grayling	378	674	Scales	4	0	PIT	000000247836
	0509	1	2532	Arctic grayling	342	586	Scales	4	0	PIT	000000248079
	0509	1	2533	Mountain whitefish	378	640	Scales		0	PIT	000000248006
	0509	1	2534	Mountain whitefish	356	474	Scales		2	PIT	000000244543
	0509	1	2535	Mountain whitefish	309	296	Scales	5	2	PIT	000000244291
	0509	1	2536	Arctic grayling	323	440	Scales	3	0	PIT	000000247361
	0509	1	2537	Longnose sucker	251	218			0		
	0509	1	2538	Mountain whitefish	286	244	Scales		2	PIT	000000243886
	0509	1	2539	Mountain whitefish	336	418	Scales		0	PIT	000000247488
	0509	1	2540	Mountain whitefish	358	474	Scales	6	0	PIT	000000247732
	0509	1	2541	Mountain whitefish	342	412	Scales		0	PIT	000000247889
	0509	1	2542	Longnose sucker	356	580			0		
	0509	1	2543	Longnose sucker	408	790			0		
	0509	1	2544	Longnose sucker	362	630			0		
	0509	1	2545	Arctic grayling	284	298	Scales	2	0	PIT	000000247600
	0509	1	2546	Arctic grayling	202	106	Scales	1	0		
	0509	1	2547	Mountain whitefish	358	464	Scales		2	PIT	0A00726373
	0509	1	2548	Mountain whitefish	337	420	Scales		2	PIT	000000245427
	0509	1	2549	Mountain whitefish	301	304	Scales		0	PIT	000000248015
	0509	1	2550	Mountain whitefish	274	260	Scales		0	PIT	000000248026
	0509	1	2551	Mountain whitefish	272	256	Scales		0	PIT	000000247636
	0509	1	2552	Mountain whitefish	195	86	Scales	2	0		
	0509	1	2553	Mountain whitefish	250	172	Scales		0	PIT	000000248030
	0509	1	2554	Mountain whitefish	216	114	Scales		0		
	0509	1	2555	Longnose sucker	225	168			0		
	0509	1	2556	Mountain whitefish	327	336	Scales		2	PIT	000000244547

Appendix C Table C1. Biological characteristics data for sampled fish, 2008 Peace River Fish Community Indexing Program.

Area and Site Label	Session	FishID	Common Name	Fork Length (mm)	Weight (gm)	Age Structure	Age	Capture Code	Tag			
									Type	Number	Colour	
5	0509	1	2557	Arctic grayling	263	204	Scales	2	0	PIT	000000247663	
	0509	1	2558	Mountain whitefish	307	332	Scales		2	PIT	000000245580	
	0509	1	2559	Mountain whitefish	269	234	Scales		0	PIT	000000247442	
	0509	1	2560	Mountain whitefish	325	400	Scales		0	PIT	000000247869	
	0509	1	2561	Mountain whitefish	282	232	Scales		0	PIT	000000247460	
	0509	1	2562	Mountain whitefish	247	176	Scales	3	0			
	0509	1	2563	Mountain whitefish	217	104	Scales		0			
	0509	1	2564	Mountain whitefish	184	80	Scales	2	0			
	0509	1	2565	Bull trout	348	434	Fin Ray	3	0	PIT	000000247369	
	0509	1	2566	Rainbow trout	362	542			0			
	0509	1	2567	Mountain whitefish	420	722	Scales		0	PIT	000000247462	
	0509	1	2568	Mountain whitefish	280	246	Scales		0	PIT	000000248117	
	0509	1	2569	Mountain whitefish	285	288	Scales		0	PIT	000000247421	
	0509	1	2570	Mountain whitefish	293	302	Scales		0	PIT	000000247548	
	0509	1	2571	Mountain whitefish	267	216	Scales		0	PIT	000000247954	
	0509	1	2572	Mountain whitefish	240	166	Scales		0			
	0509	1	2573	Mountain whitefish	285	260	Scales		0	PIT	000000247543	
	0509	1	2574	Mountain whitefish	180	70	Scales		0			
	0509	1	2575	Mountain whitefish	259	208	Scales		0	PIT	000000247497	
	0509	1	2576	Rainbow trout	194	96			0			
	0509	1	2577	Mountain whitefish	285	284	Scales		0	PIT	000000247721	
	0509	1	2578	Mountain whitefish	147	26	Scales		0			
	0509	1	2579	Mountain whitefish	279	204	Scales		0	PIT	000000247690	
	0509	1	2580	Mountain whitefish	273	230	Scales		0	PIT	000000247337	
	0509	1	2581	Mountain whitefish	250	214	Scales		0	PIT	000000248100	
	0509	1	2582	Mountain whitefish	225	104	Scales		0			
	0509	1	2583	Mountain whitefish	88	10	Scales		0			
	0512	1	2584	Longnose sucker	343	536			0			
	0512	1	2585	Longnose sucker	395	882			0			
	0512	1	2586	Mountain whitefish	360	516	Scales		2	PIT	0A00746751	
	0512	1	2587	Mountain whitefish	353	518	Scales		0	PIT	000000248216	
	0512	1	2588	Mountain whitefish	347	474	Scales		0	PIT	000000247898	
	0512	1	2589	Mountain whitefish	380	620	Scales		0	PIT	000000247474	
	0512	1	2590	Mountain whitefish	345	480	Scales		0	PIT	000000248040	
	0512	1	2591	Mountain whitefish	396	696	Scales		0	PIT	000000247931	
	0512	1	2592	Mountain whitefish	289	294	Scales		5	PIT	000000247405	
	0512	1	2593	Mountain whitefish	304	338	Scales		0	PIT	000000248176	
	0512	1	2594	Mountain whitefish	310	370	Scales		0	PIT	000000247374	
	0512	1	2595	Walleye	495	1422			0			
	0512	1	2596	Mountain whitefish	294	284	Scales		0	PIT	000000247929	
	0512	1	2597	Longnose sucker	405	902			2	FLOY	1481 ORANGE	
	0512	1	2598	Longnose sucker	324	462			0			
	0512	1	2599	Mountain whitefish	362	478	Scales		0	PIT	000000247589	
	0512	1	2600	Longnose sucker	251	196			0			
	0512	1	2601	Mountain whitefish	287	292	Scales		0	PIT	000000248142	
	0512	1	2602	Mountain whitefish	362	478	Scales		0	PIT	000000248136	
	0512	1	2603	Mountain whitefish	185	70	Scales		0			
	0512	1	2604	Mountain whitefish	190	70	Scales		0			
	0512	1	2605	Mountain whitefish	212	94	Scales		0			
	0512	1	2606	Mountain whitefish	198	84	Scales	2	0			
	0512	1	2607	Mountain whitefish	184	68	Scales	2	0			
	0512	1	2608	Mountain whitefish	247	172	Scales		0			
	0512	1	2609	Mountain whitefish	230	134	Scales		0			
	0512	1	2610	Longnose sucker	416	984			0			
	0512	1	2611	Mountain whitefish	325	390	Scales		2	PIT	000000245046	
	0512	1	2612	Mountain whitefish	272	240	Scales		0	PIT	000000248217	
	0512	1	2613	Mountain whitefish	340	434	Scales		0	PIT	000000247368	
	0512	1	2614	Mountain whitefish	279	224	Scales		0	PIT	000000247933	
	0512	1	2615	Longnose sucker	352	606			0			
	0512	1	2616	Longnose sucker	344	562			0			
	0512	1	2617	Longnose sucker	205	118			0			
	0512	1	2618	Mountain whitefish	184	70	Scales		0			
	0512	1	2619	Mountain whitefish	276	274	Scales		0	PIT	000000248289	
	0512	1	2620	Mountain whitefish	270	210	Scales		0	PIT	000000247915	

Appendix C Table C1. Biological characteristics data for sampled fish, 2008 Peace River Fish Community Indexing Program.

Area and Site Label	Session	FishID	Common Name	Fork Length (mm)	Weight (gm)	Age Structure	Age	Capture Code	Tag		
									Type	Number	Colour
5											
	0512	1	2621	Mountain whitefish	223	130	Scales	0			
	0512	1	2622	Mountain whitefish	235	148	Scales	0			
	0512	1	2623	Mountain whitefish	198	82	Scales	0			
	0512	1	2624	Mountain whitefish	360	462	Scales	0	PIT	000000247943	
	0512	1	2625	Mountain whitefish	183	72	Scales	0			
	0512	1	2626	Mountain whitefish	250	172	Scales	0	PIT	000000247871	
	0512	1	2627	Mountain whitefish	185	56	Scales	0			
	0512	1	2628	Mountain whitefish	235	140	Scales	0			
	0512	1	2629	Mountain whitefish	180	64	Scales	0			
	0512	1	2630	Mountain whitefish	190	78	Scales	0			
	0512	1	2631	Mountain whitefish	192	70	Scales	0			
	0512	1	2632	Mountain whitefish	195	80	Scales	0			
	0512	1	2633	Mountain whitefish	194	74	Scales	0			
	0512	1	2634	Mountain whitefish	278	210	Scales	2	PIT	000000245416	
	0512	1	2635	Mountain whitefish	240	142	Scales	0			
	0512	1	2636	Mountain whitefish	184	62	Scales	0			
	0512	1	2637	Mountain whitefish	145	38	Scales	0			
	0512	1	2638	Mountain whitefish	186	66	Scales	0			
	0512	1	2639	Mountain whitefish	201	88	Scales	0			
	0512	1	2640	Longnose sucker	141	24		0			
	0504	1	2641	Mountain whitefish	259	202	Scales	0	PIT	000000247642	
	0504	1	2642	Mountain whitefish	295	278	Scales	0	PIT	000000247700	
	0504	1	2643	Mountain whitefish	296	336	Scales	5	PIT	000000248082	
	0504	1	2644	Mountain whitefish	304	334	Scales	4	PIT	000000247715	
	0504	1	2645	Mountain whitefish	267	190	Scales	0	PIT	000000247408	
	0504	1	2646	Mountain whitefish	275	234	Scales	0	PIT	000000248108	
	0504	1	2647	Mountain whitefish	190	78	Scales	0			
	0504	1	2648	Mountain whitefish	180	66	Scales	2	0		
	0504	1	2649	Mountain whitefish	334	432	Scales	0	PIT	000000248084	
	0504	1	2650	Mountain whitefish	327	372	Scales	2	PIT	0A00726542	
	0504	1	2651	Mountain whitefish	365	472	Scales	5	PIT	000000247628	
	0504	1	2652	Mountain whitefish	283	236	Scales	0	PIT	000000247785	
	0504	1	2653	Mountain whitefish	264	192	Scales	2	PIT	000000247312	
	0504	1	2654	Mountain whitefish	277	230	Scales	0	PIT	000000246725	
	0504	1	2655	Mountain whitefish	394	670	Scales	0	PIT	000000247666	
	0504	1	2656	Mountain whitefish	322	368	Scales	0	PIT	000000247316	
	0504	1	2657	Mountain whitefish	278	256	Scales	2	PIT	000000247813	
	0504	1	2658	Mountain whitefish	283	246	Scales	0	PIT	000000247366	
	0504	1	2659	Mountain whitefish	254	168	Scales	0			
	0504	1	2660	Mountain whitefish	253	176	Scales	0	PIT	000000247853	
	0504	1	2661	Mountain whitefish	242	176	Scales	0			
	0504	1	2662	Mountain whitefish	207	104	Scales	0			
	0504	1	2663	Mountain whitefish	193	70	Scales	2	0		
	0504	1	2664	Mountain whitefish	191	80	Scales	0			
	0504	1	2665	Mountain whitefish	226	112	Scales	0			
	0504	1	2666	Mountain whitefish	195	74	Scales	0			
	0504	1	2667	Mountain whitefish	198	90	Scales	0			
	0504	1	2668	Mountain whitefish	190	72	Scales	2	0		
	0510	1	2669	Arctic grayling	266	278	Scales	2	0	PIT	000000247830
	0510	1	2670	Longnose sucker	402	812		0			
	0510	1	2671	Longnose sucker	418	890		0			
	0510	1	2672	Longnose sucker	382	678		0			
	0510	1	2673	Longnose sucker	404	926		0			
	0510	1	2674	Longnose sucker	398	834		0			
	0510	1	2675	Mountain whitefish	424	858	Scales	2	FLOY	13997	WHITE
	0510	1	2676	Longnose sucker	404	936		0			
	0510	1	2677	Longnose sucker	409	960		0			
	0510	1	2678	Longnose sucker	369	650		0			
	0510	1	2679	Longnose sucker	400	828		0			
	0510	1	2680	Longnose sucker	398	922		0			
	0510	1	2681	Mountain whitefish	432	816	Scales	0	PIT	000000247733	
	0510	1	2682	Mountain whitefish	394	580	Scales	0	PIT	000000247352	
	0510	1	2683	Arctic grayling	382	608	Scales	4	PIT	000000247659	
	0510	1	2684	Arctic grayling	178	70	Scales	1	0		

Appendix C Table C1. Biological characteristics data for sampled fish, 2008 Peace River Fish Community Indexing Program.

Area and Site Label	Session	FishID	Common Name	Fork Length (mm)	Weight (gm)	Age Structure	Age	Capture Code	Tag				
									Type	Number	Colour		
5	0510	1	2685	Mountain whitefish	350	452	Scales	2	PIT	4D00020861			
	0510	1	2686	Mountain whitefish	341	488	Scales	0	PIT	000000247326			
	0510	1	2687	Mountain whitefish	389	618	Scales	0					
	0510	1	2688	Mountain whitefish	249	168	Scales	3	0				
	0510	1	2689	Mountain whitefish	314	372	Scales	0	PIT	000000247411			
	0510	1	2690	Mountain whitefish	345	460	Scales	2	FLOY	13930	WHITE		
	0510	1	2691	Arctic grayling	244	198	Scales	2	0				
	0510	1	2692	Mountain whitefish	253	178	Scales	0	PIT	000000247618			
	0510	1	2693	Mountain whitefish	202	74	Scales	2	0				
	0510	1	2694	Mountain whitefish	201	88	Scales	0					
	0510	1	2695	Mountain whitefish	214	98	Scales	0					
	0510	1	2696	Mountain whitefish	175	56	Scales	0					
	0510	1	2697	Longnose sucker	206	102		0					
	0510	1	2698	Mountain whitefish	334	386	Scales	0	PIT	000000247523			
	0510	1	2699	Mountain whitefish	189	68	Scales	0					
	0510	1	2700	Mountain whitefish	344	454	Scales	0					
	0510	1	2701	Mountain whitefish	187	74	Scales	0					
	0510	1	2702	Mountain whitefish	258	178	Scales	0	PIT	000000247900			
	0510	1	2703	Mountain whitefish	195	70	Scales	0					
	0510	1	2704	Mountain whitefish	152	40	Scales	1	0				
	0510	1	2705	Mountain whitefish	181	80	Scales	0					
	0510	1	2706	Arctic grayling	373	612	Scales	3	0	PIT	000000247965		
	0510	1	2707	Mountain whitefish	354	400	Scales	2	PIT	4D00033723			
	0510	1	2708	Mountain whitefish	307	326	Scales	0	PIT	000000248264			
	0510	1	2709	Mountain whitefish	266	208	Scales	0	PIT	000000248065			
	0510	1	2710	Mountain whitefish	296	274	Scales	0	PIT	000000247905			
	0510	1	2711	Mountain whitefish	321	382	Scales	0	PIT	000000247756			
	0510	1	2712	Mountain whitefish	144	30	Scales	0					
	0510	1	2713	Mountain whitefish	268	238	Scales	0	PIT	000000247654			
	0510	1	2714	Longnose sucker	377	698		0					
	0510	1	2715	Mountain whitefish	316	354	Scales	0	PIT	000000248226			
	0510	1	2716	Longnose sucker	212			0					
	0510	1	2717	Mountain whitefish	257	242	Scales	0	PIT	000000247835			
	0510	1	2718	Longnose sucker	234			0					
	0510	1	2719	Mountain whitefish	259	182	Scales	0	PIT	000000247755			
	0510	1	2720	Mountain whitefish	143	34	Scales	0					
	0510	1	2721	Mountain whitefish	194	74	Scales	0					
	0511	1	2722	Longnose sucker	380	630		0					
	0511	1	2723	Walleye	308	402		0					
	0511	1	2724	Walleye	478	1286		0					
	0511	1	2725	Bull trout	311	336	Fin Ray	3	0	PIT	000000248055		
	0511	1	2726	Mountain whitefish	375	486	Scales	0	PIT	000000248140			
	0511	1	2727	Rainbow trout	220	120		0					
	0511	1	2728	Mountain whitefish	420	856	Scales	2	FLOY	13997	WHITE		
	0511	1	2729	Rainbow trout	295	288		0					
	0511	1	2730	Mountain whitefish	322	406	Scales	2	PIT	4D00034278			
	0511	1	2731	Mountain whitefish	378	474	Scales	2	PIT	4D00026416			
	0511	1	2732	Mountain whitefish	361	452	Scales	6	0	PIT	000000248156		
	0511	1	2733	Mountain whitefish	309	288	Scales	0	PIT	000000248311			
	0511	1	2734	Mountain whitefish	310	292	Scales	0	PIT	000000248211			
	0511	1	2735	Mountain whitefish	316	376	Scales	0	PIT	000000248263			
	0511	1	2736	Mountain whitefish	302	308	Scales	0	PIT	000000247838			
	0511	1	2737	Mountain whitefish	345	414	Scales	2	PIT	000000245901			
	0511	1	2738	Mountain whitefish	295	276	Scales	0	PIT	000000247503			
	0511	1	2739	Mountain whitefish	311	374	Scales	2	PIT	000000246488			
	0511	1	2740	Mountain whitefish	255	226	Scales	0	PIT	000000247867			
	0511	1	2741	Mountain whitefish	311	344	Scales	0	PIT	000000248296			
	0511	1	2742	Mountain whitefish	292	256	Scales	0	PIT	000000247576			
	0511	1	2743	Mountain whitefish	301	320	Scales	2	PIT	4D00032069			
	0511	1	2744	Mountain whitefish	270	238	Scales	0	PIT	000000248028			
	0511	1	2745	Mountain whitefish	240	152	Scales	0					
	0511	1	2746	Mountain whitefish	242	150	Scales	0					
	0511	1	2747	Mountain whitefish	274	272	Scales	0	PIT	000000248017			
	0511	1	2748	Mountain whitefish	282	250	Scales	0	PIT	000000247648			

Appendix C Table C1. Biological characteristics data for sampled fish, 2008 Peace River Fish Community Indexing Program.

Area and Site Label	Session	FishID	Common Name	Fork Length (mm)	Weight (gm)	Age Structure	Age	Capture Code	Tag			
									Type	Number	Colour	
5	0511	1	2749	Mountain whitefish	171	50	Scales	2	0			
	0511	1	2750	Mountain whitefish	184	64	Scales		0			
	0511	1	2751	Mountain whitefish	183	60	Scales		0			
	0511	1	2752	Mountain whitefish	205	82	Scales		0			
	0511	1	2753	Mountain whitefish	190	68	Scales		0			
	0511	1	2754	Mountain whitefish	181	62	Scales		0			
	0511	1	2755	Mountain whitefish	152	34	Scales		0			
	0511	1	2756	Mountain whitefish	149	34	Scales		0			
	0515	1	2757	Walleye	422	872			0			
	0515	1	2758	Walleye	448	1048			0			
	0515	1	2759	Arctic grayling	364	644	Scales	4	0	PIT		:000000247975
	0515	1	2760	Mountain whitefish	373	542	Scales	8	0	PIT		:000000248092
	0515	1	2761	Mountain whitefish	347	460	Scales		0	PIT		:000000247436
	0515	1	2762	Mountain whitefish	302	264	Scales		0	PIT		:000000248308
	0515	1	2763	Mountain whitefish	270	216	Scales		0	PIT		:000000247468
	0515	1	2764	Mountain whitefish	292	302	Scales		0	PIT		:000000247573
	0515	1	2765	Mountain whitefish	448	928	Scales		2	PIT		0A00717720
	0515	1	2766	Mountain whitefish	463	1082	Scales		0	PIT		:000000247890
	0515	1	2767	Mountain whitefish	439	1016	Scales		0	PIT		:000000248267
	0515	1	2768	Mountain whitefish	363	460	Scales		0	PIT		:000000247763
	0515	1	2769	Mountain whitefish	460	1022	Scales		2	FLOY		14930 WHITE
	0515	1	2770	Mountain whitefish	406	856	Scales		0			
	0515	1	2771	Mountain whitefish	346	470	Scales		0	PIT		:000000247862
	0515	1	2772	Mountain whitefish	338	332	Scales		0	PIT		:000000247339
	0515	1	2773	Mountain whitefish	362	502	Scales		0	PIT		:000000247845
	0515	1	2774	Mountain whitefish	344	468	Scales		0	PIT		:000000247365
	0515	1	2775	Mountain whitefish	333	388	Scales		0	PIT		:000000247850
	0515	1	2776	Mountain whitefish	334	364	Scales		0	PIT		:000000248213
	0515	1	2777	Mountain whitefish	384	510	Scales		0	PIT		:000000247781
	0515	1	2778	Arctic grayling	357	590	Scales	4	0	PIT		:000000247803
	0515	1	2779	Mountain whitefish	323	332	Scales		0	PIT		:000000247779
	0515	1	2780	Mountain whitefish	422	660	Scales		0	PIT		:000000247885
	0515	1	2781	Mountain whitefish	329	418	Scales		0	PIT		:000000247479
	0515	1	2782	Mountain whitefish	391	566	Scales		0	PIT		:000000248088
	0515	1	2783	Mountain whitefish	238	138	Scales		0			
	0515	1	2784	Mountain whitefish	337	424	Scales		0	PIT		:000000247551
	0515	1	2785	Mountain whitefish	263	204	Scales		0	PIT		:000000247808
	0515	1	2786	Mountain whitefish	270	220	Scales		0	PIT		:000000247520
	0515	1	2787	Mountain whitefish	192	74	Scales		0			
	0515	1	2788	Mountain whitefish	182	70	Scales		0			
	0515	1	2789	Mountain whitefish	187	64	Scales		0			
	0515	1	2790	Mountain whitefish	327	342	Scales		9	0	PIT	:000000247384
	0515	1	2791	Mountain whitefish	331	400	Scales		0	PIT		:000000248148
	0515	1	2792	Arctic grayling	238	192	Scales		2	0		
	0515	1	2793	Mountain whitefish	305	372	Scales		0	PIT		:000000247888
	0515	1	2794	Mountain whitefish	305	328	Scales		0	PIT		:000000248265
	0515	1	2795	Mountain whitefish	247	192	Scales		0			
	0515	1	2796	Mountain whitefish	257	182	Scales		0	PIT		:000000247745
	0515	1	2797	Mountain whitefish	299	308	Scales		0	PIT		:000000247863
	0515	1	2798	Mountain whitefish	298	268	Scales		0	PIT		:000000247529
	0515	1	2799	Mountain whitefish	357	524	Scales		0	PIT		:000000247473
	0515	1	2800	Mountain whitefish	344	450	Scales		5	0	PIT	:000000247780
	0515	1	2801	Mountain whitefish	261	216	Scales		0	PIT		:000000247381
	0515	1	2802	Mountain whitefish	290	262	Scales		0	PIT		:000000247455
	0515	1	2803	Mountain whitefish	183	62	Scales		0			
	0515	1	2804	Mountain whitefish	261	230	Scales		2	PIT		:000000242001
	0515	1	2805	Mountain whitefish	194	74	Scales		0			
	0515	1	2806	Mountain whitefish	185	66	Scales		0			
	0515	1	2807	Mountain whitefish	235	138	Scales		0			
	0515	1	2808	Mountain whitefish	234	130	Scales		0			
	0515	1	2809	Mountain whitefish	194	74	Scales		0			
	0515	1	2810	Mountain whitefish	309	382	Scales		1			
	0515	1	2811	Mountain whitefish	185	62	Scales		0			
	0515	1	2812	Mountain whitefish	279	274	Scales		0	PIT		:000000247621

Appendix C Table C1. Biological characteristics data for sampled fish, 2008 Peace River Fish Community Indexing Program.

Area and Site Label	Session	FishID	Common Name	Fork Length (mm)	Weight (gm)	Age Structure	Age	Capture Code	Tag			
									Type	Number	Colour	
5	0515	1	2813	Mountain whitefish	395	676	Scales	7	2	PIT	000000243930	
	0515	1	2814	Mountain whitefish	266	206	Scales		0	PIT	000000247843	
	0515	1	2815	Mountain whitefish	283	222	Scales		2	PIT	0A00724012	
	0515	1	2816	Mountain whitefish	186	84	Scales		0			
	0515	1	2817	Mountain whitefish	314	388	Scales		0	PIT	000000247509	
	0515	1	2818	Mountain whitefish	268		Scales	4	0	PIT	000000248154	
	0515	1	2819	Mountain whitefish	200	84	Scales		0			
	0515	1	2820	Mountain whitefish	319	350	Scales		0	PIT	000000247388	
	0515	1	2821	Mountain whitefish	256	192	Scales		0	PIT	000000247923	
	0515	1	2822	Mountain whitefish	267	202	Scales		0	PIT	000000247619	
	0515	1	2823	Mountain whitefish	350	446	Scales		0	PIT	000000248208	
	0515	1	2824	Mountain whitefish	141	30	Scales		0			
	0515	1	2825	Mountain whitefish	188	74	Scales		0			
	0513	1	2826	Longnose sucker	425	976			0			
	0513	1	2827	Longnose sucker	394	734			0			
	0513	1	2828	Longnose sucker	375	778			0			
	0513	1	2829	Longnose sucker	401	844			0			
	0513	1	2830	Bull trout	438	766			0	PIT	000000247765	
	0513	1	2831	Mountain whitefish	406	766	Scales		0	PIT	000000247627	
	0513	1	2832	Longnose sucker	346	588			0			
	0513	1	2833	Mountain whitefish	332	446	Scales		0	PIT	000000248255	
	0513	1	2834	Mountain whitefish	452	862	Scales		2	PIT	0A00717407	
	0513	1	2835	Mountain whitefish	395	718	Scales		0	PIT	000000247387	
	0513	1	2836	Mountain whitefish	423	834	Scales		0	PIT	000000247595	
	0513	1	2837	Longnose sucker	389	904			0			
	0513	1	2838	Mountain whitefish	396	624	Scales		2	FLOY	15843	WHITE
	0513	1	2839	Mountain whitefish	291	292			0			
	0513	1	2840	Mountain whitefish	423	704			2	FLOY	14942	WHITE
	0513	1	2841	Mountain whitefish	376	634	Scales		0	PIT	000000247678	
	0513	1	2842	Mountain whitefish	372	496	Scales		0	PIT	000000247709	
	0513	1	2843	Mountain whitefish	320	354	Scales		0	PIT	000000247668	
	0513	1	2844	Longnose sucker	420	922			0			
	0513	1	2845	Mountain whitefish	304	396	Scales		0	PIT	000000247810	
	0513	1	2846	Longnose sucker	363	632			0			
	0513	1	2847	Longnose sucker	355	544			0			
	0513	1	2848	Longnose sucker	406	940			0			
	0513	1	2849	Longnose sucker	392	742			0			
	0513	1	2850	Longnose sucker	376	688			0			
	0513	1	2851	Mountain whitefish	364	556	Scales		0	PIT	000000248292	
	0513	1	2852	Mountain whitefish	304	262	Scales		2	PIT	000000248308	
	0513	1	2853	Mountain whitefish	292	322	Scales		2	PIT	0A00724012	
	0513	1	2854	Mountain whitefish	395	564	Scales		0	PIT	000000248126	
	0513	1	2855	Mountain whitefish	310	374	Scales		0	PIT	000000247425	
	0513	1	2856	Mountain whitefish	306	406	Scales	7	0	PIT	000000247567	
	0513	1	2857	Mountain whitefish	304	332	Scales		0	PIT	000000248168	
	0513	1	2858	Mountain whitefish	368	594	Scales		2	PIT	000000238403	
	0513	1	2859	Mountain whitefish	245	158			0			
	0513	1	2860	Mountain whitefish	396	640	Scales		0	PIT	000000247606	
	0513	1	2861	Mountain whitefish	357	430	Scales		0	PIT	000000248283	
	0513	1	2862	Mountain whitefish	331	420	Scales		0	PIT	000000247964	
	0513	1	2863	Mountain whitefish	392	564	Scales		2	FLOY	14065	WHITE
	0513	1	2864	Bull trout	211	100	Fin Ray	2	0			
	0513	1	2865	Mountain whitefish	319	374	Scales		0	PIT	000000247541	
	0513	1	2866	Mountain whitefish	352	552	Scales		5	PIT	000000247347	
	0513	1	2867	Mountain whitefish	323	420	Scales		0	PIT	000000247617	
	0513	1	2868	Mountain whitefish	383	580	Scales		0	PIT	000000247518	
	0513	1	2869	Mountain whitefish	332	404	Scales		0	PIT	000000248166	
	0513	1	2870	Mountain whitefish	340	468	Scales		0	PIT	000000247450	
	0513	1	2871	Mountain whitefish	293	264			0	PIT	000000247346	
	0513	1	2872	Mountain whitefish	264	210			0	PIT	000000247698	
	0513	1	2873	Mountain whitefish	256	188			0	PIT	000000247731	
	0513	1	2874	Mountain whitefish	204	94			0			
	0513	1	2875	Mountain whitefish	275	240			0	PIT	000000248157	
	0513	1	2876	Mountain whitefish	300	270			2	PIT	000000238446	

Appendix C Table C1. Biological characteristics data for sampled fish, 2008 Peace River Fish Community Indexing Program.

Area and Site Label	Session	FishID	Common Name	Fork Length (mm)	Weight (gm)	Age Structure	Age	Capture Code	Tag			
									Type	Number	Colour	
5												
0513	1	2877	Mountain whitefish	183	74			0				
0513	1	2878	Mountain whitefish	182	62			0				
0513	1	2879	Mountain whitefish	210	98			0				
0513	1	2880	Mountain whitefish	191	82			0				
0513	1	2881	Mountain whitefish	246	152			0				
0513	1	2882	Mountain whitefish	196	80			0				
0513	1	2883	Mountain whitefish	179	62			0				
0513	1	2884	Mountain whitefish	182	70			0				
0513	1	2885	Mountain whitefish	315	304			0	PIT	000000247601		
0513	1	2886	Mountain whitefish	330	384			0	PIT	000000247839		
0513	1	2887	Mountain whitefish	261	206			0	PIT	000000248059		
0513	1	2888	Mountain whitefish	181	64			0				
0513	1	2889	Longnose sucker	315	400			0				
0513	1	2890	Mountain whitefish	186	70			0				
0513	1	2891	Mountain whitefish	195	78			0				
0513	1	2892	Mountain whitefish	312	338			0	PIT	000000248094		
0513	1	2893	Mountain whitefish	240	158			0				
0513	1	2894	Mountain whitefish	144	34			0				
0514	1	2895	Longnose sucker	402	836			0				
0514	1	2896	Longnose sucker	413	844			0				
0514	1	2897	Longnose sucker	410	854			0				
0514	1	2898	Longnose sucker	423	1090			0				
0514	1	2899	Longnose sucker	443	1202			0				
0514	1	2900	Longnose sucker	385	802			0				
0514	1	2901	Longnose sucker	376	724			0				
0514	1	2902	Longnose sucker	335	546			0				
0514	1	2903	Longnose sucker	420	848			0				
0514	1	2904	Longnose sucker	422	1020			0				
0514	1	2905	Longnose sucker	399	794			0				
0514	1	2906	Longnose sucker	385	776			0				
0514	1	2907	Longnose sucker	365	624			0				
0514	1	2908	Longnose sucker	408	940			0				
0514	1	2909	Longnose sucker	319	396			0				
0514	1	2910	Longnose sucker	270	280			0				
0514	1	2911	Mountain whitefish	385	644			0	PIT	000000247395		
0514	1	2912	Mountain whitefish	466	914	Scales		2	FLOY	14099	WHITE	
0514	1	2913	Mountain whitefish	378	564	Scales		2	PIT	000000244467		
0514	1	2914	Mountain whitefish	330	402	Scales		2	PIT	4D00035302		
0514	1	2915	Mountain whitefish	376	640	Scales		2	PIT	000000247678		
0514	1	2916	Mountain whitefish	433	782	Scales		0	PIT	000000247939		
0514	1	2917	Mountain whitefish	334	488	Scales	7	0	PIT	000000247751		
0514	1	2918	Mountain whitefish	308	348			0				
0514	1	2919	Mountain whitefish	336	410	Scales		0	PIT	000000248113		
0514	1	2920	Mountain whitefish	383	548	Scales		0	PIT	000000247656		
0514	1	2921	Mountain whitefish	360	516	Scales		0	PIT	000000247505		
0514	1	2922	Mountain whitefish	352	428	Scales		0	PIT	000000247893		
0514	1	2923	Mountain whitefish	345	486	Scales		0	PIT	000000247741		
0514	1	2924	Mountain whitefish	314	340	Scales	4	0	PIT	000000247920		
0514	1	2925	Mountain whitefish	310	342	Scales		0	PIT	000000247379		
0514	1	2926	Mountain whitefish	178	64			0				
0514	1	2927	Mountain whitefish	245	194	Scales		0				
0514	1	2928	Mountain whitefish	245	176	Scales		0				
0514	1	2929	Mountain whitefish	235	148	Scales		0				
0514	1	2930	Mountain whitefish	255	196	Scales		0	PIT	000000247894		
0514	1	2931	Mountain whitefish	188	70	Scales		0				
0514	1	2932	Mountain whitefish	197	80	Scales		0				
0514	1	2933	Mountain whitefish	214	88	Scales		0				
0514	1	2934	Longnose sucker	152	36			0				
0503	2	4533	Mountain whitefish	390	582	Scales		2	PIT	000000246935		
0503	2	4534	Longnose sucker	269	228			0				
0503	2	4535	Largescale sucker	541	2152			0				
0503	2	4536	Mountain whitefish	387	614	Scales		2	FLOY	15045	WHITE	
0503	2	4537	Largescale sucker	545	1982			0				
0503	2	4538	Longnose sucker	410	824			0				

Appendix C Table C1. Biological characteristics data for sampled fish, 2008 Peace River Fish Community Indexing Program.

Area and Site Label	Session	FishID	Common Name	Fork Length (mm)	Weight (gm)	Age Structure	Age	Capture Code	Tag		
									Type	Number	Colour
5											
0503	2	4539	Longnose sucker	392	796			0			
0503	2	4540	Mountain whitefish	482	1242	Scales		1			
0503	2	4541	Longnose sucker	370	618			0			
0503	2	4542	Longnose sucker	434	1056			0			
0503	2	4543	Longnose sucker	387	828			0			
0503	2	4544	Longnose sucker	373	662			0			
0503	2	4545	Longnose sucker	412	820			0			
0503	2	4546	Longnose sucker	428	1008			0			
0503	2	4547	Longnose sucker	413	912			0			
0503	2	4548	Longnose sucker	348	518			0			
0503	2	4549	Longnose sucker	424	924			0			
0503	2	4550	Mountain whitefish	416	838	Scales		0	PIT	000000089018	
0503	2	4551	Mountain whitefish	281	268	Scales		0	PIT	000000092607	
0503	2	4552	Longnose sucker	232	168			0			
0503	2	4553	Mountain whitefish	287	226	Scales		0	PIT	000000077506	
0503	2	4554	Mountain whitefish	382	496	Scales		2	FLOY	6318	YELLOW
0503	2	4555	Mountain whitefish	401	674	Scales		0	PIT	000000087986	
0503	2	4556	Mountain whitefish	280	232	Scales		0	PIT	000000087543	
0503	2	4557	Mountain whitefish	393	640	Scales		0	PIT	000000076961	
0503	2	4558	Mountain whitefish	333	386	Scales		0	PIT	000000085599	
0503	2	4559	Mountain whitefish	272	202	Scales		0	PIT	000000076833	
0503	2	4560	Mountain whitefish	337	424	Scales		0	PIT	000000084112	
0503	2	4561	Mountain whitefish	305	346	Scales		0	PIT	000000085598	
0503	2	4562	Mountain whitefish	368	442	Scales		0	PIT	000000081821	
0503	2	4563	Mountain whitefish	241	172	Scales		0			
0503	2	4564	Mountain whitefish	428	762	Scales		0	PIT	000000110485	
0503	2	4565	Longnose sucker	251	205			0			
0503	2	4566	Mountain whitefish	365	472	Scales		2	PIT	000000247628	
0503	2	4567	Mountain whitefish	268	222	Scales		0	PIT	000000087165	
0503	2	4568	Mountain whitefish	421	794	Scales		0	PIT	000000089219	
0503	2	4569	Mountain whitefish	360	488	Scales		2	PIT	4D00023536	
0503	2	4570	Mountain whitefish	272	236	Scales		2	PIT	000000248229	
0503	2	4571	Mountain whitefish	345	394	Scales		0	PIT	000000077817	
0503	2	4572	Mountain whitefish	320	364	Scales		0	PIT	000000079495	
0503	2	4573	Mountain whitefish	330	390	Scales		0	PIT	000000093087	
0503	2	4574	Mountain whitefish	394	658	Scales		0	PIT	000000079996	
0503	2	4575	Mountain whitefish	268	244	Scales		0	PIT	000000088991	
0503	2	4576	Mountain whitefish	262	222	Scales		0	PIT	000000078442	
0503	2	4577	Mountain whitefish	290	284	Scales		0	PIT	000000077384	
0503	2	4578	Arctic grayling	272	254	Scales	2	0	PIT	000000086006	
0503	2	4579	Mountain whitefish	393	622	Scales		2	PIT	4D00031120	
0503	2	4580	Mountain whitefish	392	664	Scales		0			
0503	2	4581	Mountain whitefish	192	68	Scales		0			
0503	2	4582	Mountain whitefish	302	308	Scales		0	PIT	000000085018	
0503	2	4583	Mountain whitefish	333	372	Scales		0	PIT	000000093750	
0503	2	4584	Mountain whitefish	264	186	Scales		0	PIT	000000089621	
0503	2	4585	Mountain whitefish	339	444	Scales		2	PIT	000000245787	
0503	2	4586	Mountain whitefish	358	546	Scales		0	PIT	000000083770	
0503	2	4587	Mountain whitefish	153	36	Scales		0			
0503	2	4588	Mountain whitefish	190	70	Scales		0			
0503	2	4589	Mountain whitefish	294	334	Scales		0	PIT	000000084198	
0503	2	4590	Mountain whitefish	340	390	Scales		0	PIT	000000073363	
0503	2	4591	Mountain whitefish	245	160	Scales		0			
0503	2	4592	Mountain whitefish	289	284	Scales		0	PIT	000000083639	
0503	2	4593	Mountain whitefish	350	490	Scales		0	PIT	000000088543	
0503	2	4594	Mountain whitefish	272	244	Scales		0	PIT	000000085642	
0503	2	4595	Mountain whitefish	197	80	Scales		0			
0503	2	4596	Mountain whitefish	334	416	Scales		0			
0503	2	4597	Mountain whitefish	199	86	Scales		0			
0503	2	4598	Mountain whitefish	326	388	Scales		2	PIT	000000247856	
0503	2	4599	Mountain whitefish	332	396	Scales		2	PIT	000000238788	
0503	2	4600	Mountain whitefish	323	410	Scales		0	PIT	000000088789	
0503	2	4601	Longnose sucker	221	128			0			
0503	2	4602	Longnose sucker	253	188			0			

Appendix C Table C1. Biological characteristics data for sampled fish, 2008 Peace River Fish Community Indexing Program.

Area and Site Label	Session	FishID	Common Name	Fork Length (mm)	Weight (gm)	Age Structure	Age	Capture Code	Tag			
									Type	Number	Colour	
5	0503	2	4603	Mountain whitefish	279	252	Scales	4	0			
	0503	2	4604	Mountain whitefish	255	172	Scales	3	0	PIT	000000077370	
	0503	2	4605	Mountain whitefish	357	544	Scales		2	PIT	000000246950	
	0501	2	4606	Largescale sucker	408	890			0			
	0501	2	4607	Longnose sucker	396	876			0			
	0501	2	4608	Longnose sucker	436	1044			0			
	0501	2	4609	Longnose sucker	428	918			0			
	0501	2	4610	Longnose sucker	382	742			0			
	0501	2	4611	Longnose sucker	467	1200			0			
	0501	2	4612	Mountain whitefish	82	4	Scales		0			
	0501	2	4613	Longnose sucker	400	794			0			
	0501	2	4614	Longnose sucker	354	560			0			
	0501	2	4615	Longnose sucker	293	316			0			
	0501	2	4616	Mountain whitefish	405	764	Scales		0	PIT	000000092265	
	0501	2	4617	Arctic grayling	243	184	Scales		0			
	0501	2	4618	Mountain whitefish	384	584	Scales		0	PIT	000000085172	
	0501	2	4619	Mountain whitefish	299	338	Scales		0	PIT	000000076816	
	0501	2	4620	Mountain whitefish	297	266	Scales		0	PIT	000000110204	
	0501	2	4621	Mountain whitefish	248	192	Scales	4	0			
	0501	2	4622	Mountain whitefish	312	340	Scales		0	PIT	000000083818	
	0501	2	4623	Mountain whitefish	185	64	Scales		0			
	0501	2	4624	Mountain whitefish	452	940	Scales		0	PIT	000000091701	
	0501	2	4625	Mountain whitefish	399	742	Scales		0	PIT	000000077681	
	0501	2	4626	Mountain whitefish	309	350	Scales		0	PIT	000000080987	
	0501	2	4627	Mountain whitefish	302	288	Scales		0	PIT	000000110487	
	0501	2	4628	Mountain whitefish	317	384	Scales		0	PIT	000000088541	
	0501	2	4629	Mountain whitefish	242	180	Scales		0			
	0501	2	4630	Kokanee	257	210			0			
	0501	2	4631	Mountain whitefish	229	142	Scales		0			
	0501	2	4632	Mountain whitefish	244	156	Scales		0			
	0501	2	4633	Mountain whitefish	245	162	Scales		0			
	0501	2	4634	Mountain whitefish	287	256	Scales		0	PIT	000000073100	
	0501	2	4635	Mountain whitefish	232	142	Scales	3	0			
	0501	2	4636	Mountain whitefish	301	322	Scales		2	PIT	000000247715	
	0501	2	4637	Mountain whitefish	271	222	Scales	4	0	PIT	000000085847	
	0501	2	4638	Mountain whitefish	194	76	Scales		0			
	0501	2	4639	Mountain whitefish	262	202	Scales		0	PIT	000000076809	
	0501	2	4640	Mountain whitefish	199	80	Scales		0			
	0501	2	4641	Mountain whitefish	182	62	Scales		0			
	0501	2	4642	Mountain whitefish	246	158	Scales		0			
	0501	2	4643	Mountain whitefish	213	98	Scales		0			
	0502	2	4644	Longnose sucker	457	1142			0			
	0504	2	4645	Mountain whitefish	294	328	Scales		2	PIT	0A00717415	
	0504	2	4646	Mountain whitefish	391	648	Scales		2	PIT	000000076961	
	0504	2	4647	Mountain whitefish	353	460	Scales	6	0	PIT	000000093881	
	0504	2	4648	Mountain whitefish	280	260	Scales		0	PIT	000000081714	
	0504	2	4649	Mountain whitefish	327	386	Scales		2	PIT	000000245181	
	0504	2	4650	Mountain whitefish	240	168	Scales		0			
	0504	2	4651	Longnose sucker	231	142			0			
	0504	2	4652	Mountain whitefish	234	158	Scales		0			
	0504	2	4653	Mountain whitefish	236	158	Scales		0			
	0504	2	4654	Mountain whitefish	198	74	Scales		0			
	0504	2	4655	Mountain whitefish	202	82	Scales		0			
	0504	2	4656	Mountain whitefish	206	96	Scales		0			
	0504	2	4657	Mountain whitefish	201	84	Scales		0			
	0504	2	4658	Mountain whitefish	191	70	Scales		0			
	0504	2	4659	Mountain whitefish	379	614	Scales		0			
	0504	2	4660	Longnose sucker	408	854			0			
	0504	2	4661	Mountain whitefish	332	364	Scales		2	PIT	000000244622	
	0504	2	4662	Mountain whitefish	342	440	Scales		0	PIT	000000085008	
	0504	2	4663	Mountain whitefish	323	372	Scales		2	PIT	0A00726542	
	0504	2	4664	Mountain whitefish	299	312	Scales		0	PIT	000000080514	
	0504	2	4665	Mountain whitefish	256	224	Scales		0	PIT	000000079731	
	0504	2	4666	Mountain whitefish	285	240	Scales		2	PIT	000000246998	

Appendix C Table C1. Biological characteristics data for sampled fish, 2008 Peace River Fish Community Indexing Program.

Area and Site Label	Session	FishID	Common Name	Fork Length (mm)	Weight (gm)	Age Structure	Age	Capture Code	Tag		
									Type	Number	Colour
5											
0504	2	4667	Mountain whitefish	257	178	Scales		0	PIT		000000091228
0504	2	4668	Mountain whitefish	186	82	Scales		0			
0504	2	4669	Mountain whitefish	199	86	Scales		0			
0504	2	4670	Mountain whitefish	136	26	Scales		0			
0504	2	4671	Longnose sucker	318	400			0			
0504	2	4672	Mountain whitefish	246	162	Scales	3	0			
0504	2	4673	Mountain whitefish	257	184	Scales		0	PIT		000000109982
0504	2	4674	Mountain whitefish	151	36	Scales		0			
0504	2	4675	Mountain whitefish	188	64	Scales		0			
0502	2	4676	Longnose sucker	374	698			0			
0502	2	4677	Longnose sucker	373	736			0			
0502	2	4678	Longnose sucker	435	1062			0			
0502	2	4679	Mountain whitefish	256	214	Scales		0	PIT		000000078325
0502	2	4680	Mountain whitefish	457	974	Scales		0	PIT		000000093678
0502	2	4681	Mountain whitefish	406	770	Scales		2	PIT		000000239508
0502	2	4682	Mountain whitefish	440	1224	Scales		2	PIT		4D00030628
0502	2	4683	Mountain whitefish	381	498	Scales		0	PIT		000000077229
0502	2	4684	Mountain whitefish	333	428	Scales		2	PIT		000000248084
0502	2	4685	Mountain whitefish	330	368	Scales		0	PIT		000000086492
0502	2	4686	Mountain whitefish	410	700	Scales		0	PIT		000000084058
0502	2	4687	Mountain whitefish	230	136	Scales		0			
0502	2	4688	Mountain whitefish	350	440	Scales		0	PIT		000000085738
0502	2	4689	Mountain whitefish	335	404	Scales		0	PIT		000000087022
0502	2	4690	Mountain whitefish	373	528	Scales		0	PIT		000000085843
0502	2	4691	Mountain whitefish	278	284	Scales		0			
0502	2	4692	Mountain whitefish	398	706	Scales		0	PIT		000000079036
0502	2	4693	Mountain whitefish	365	528	Scales		0	PIT		000000088262
0502	2	4694	Mountain whitefish	375	576	Scales	5	0	PIT		000000088421
0502	2	4695	Mountain whitefish	257	200	Scales		2	PIT		000000247443
0502	2	4696	Mountain whitefish	362	452	Scales		2	PIT		4D00026633
0502	2	4697	Mountain whitefish	344	448	Scales		0	PIT		000000092184
0502	2	4698	Mountain whitefish	337	372	Scales		0	PIT		000000087983
0502	2	4699	Mountain whitefish	318	334	Scales		2	PIT		000000246080
0502	2	4700	Mountain whitefish	257	216	Scales		0	PIT		000000090863
0502	2	4701	Mountain whitefish	153	38	Scales		0			
0502	2	4702	Mountain whitefish	311	366	Scales		0	PIT		000000078059
0502	2	4703	Mountain whitefish	337	410	Scales		2	PIT		4D00014245
0502	2	4704	Mountain whitefish	302	318	Scales		2	PIT		000000245585
0502	2	4705	Mountain whitefish	295	284	Scales		0	PIT		000000088122
0502	2	4706	Mountain whitefish	314	346	Scales		2	PIT		4D00025227
0502	2	4707	Arctic grayling	184	74	Scales	1	0			
0502	2	4708	Mountain whitefish	347	524	Scales		0	PIT		000000080001
0502	2	4709	Mountain whitefish	264	190	Scales		0	PIT		000000093122
0502	2	4710	Mountain whitefish	282	288	Scales		0	PIT		000000085886
0502	2	4711	Mountain whitefish	200	84	Scales		0			
0502	2	4712	Mountain whitefish	277	232	Scales		0	PIT		000000110739
0502	2	4713	Mountain whitefish	320	362	Scales		2	PIT		000000246697
0502	2	4714	Longnose sucker	145	30			0			
0502	2	4715	Mountain whitefish	87	6	Scales		0			
0502	2	4716	Mountain whitefish	94	6	Scales		0			
0502	2	4717	Mountain whitefish	151	34	Scales		0			
0502	2	4718	Mountain whitefish	279	288	Scales		0	PIT		000000082055
0502	2	4719	Mountain whitefish	375	604	Scales		0	PIT		000000083623
0502	2	4720	Mountain whitefish	288	272	Scales		0	PIT		000000087679
0502	2	4721	Mountain whitefish	357	496	Scales		0	PIT		000000089339
0502	2	4722	Mountain whitefish	193	80	Scales		0			
0502	2	4723	Mountain whitefish	284	254	Scales		0	PIT		000000076820
0502	2	4724	Mountain whitefish	244	176	Scales		0			
0502	2	4725	Mountain whitefish	252	164	Scales		0	PIT		000000086122
0502	2	4726	Mountain whitefish	304	336	Scales		0	PIT		000000089480
0502	2	4727	Mountain whitefish	234	148	Scales		0			
0502	2	4728	Mountain whitefish	264	186	Scales		0	PIT		000000086754
0502	2	4729	Mountain whitefish	210	94	Scales	2	0			
0502	2	4730	Mountain whitefish	157	40	Scales		0			

Appendix C Table C1. Biological characteristics data for sampled fish, 2008 Peace River Fish Community Indexing Program.

Area and Site Label	Session	FishID	Common Name	Fork Length (mm)	Weight (gm)	Age Structure	Age	Capture Code	Tag		
									Type	Number	Colour
5											
	0502	2	4731	Mountain whitefish	262	176	Scales		2	PIT	:000000091228
	0502	2	4732	Mountain whitefish	167	50	Scales		0		
	0502	2	4733	Mountain whitefish	206	94	Scales		0		
	0502	2	4734	Mountain whitefish	217	108	Scales		0		
	0502	2	4735	Mountain whitefish	153	38	Scales		0		
	0502	2	4736	Mountain whitefish	198	76	Scales		0		
	0502	2	4737	Mountain whitefish	184	60	Scales		0		
	0505	2	4738	Bull trout	657	3720	Fin Ray	5	0	PIT	:000000078892
	0505	2	4739	Longnose sucker	449	1248			0		
	0505	2	4740	Longnose sucker	273	270			0		
	0505	2	4741	Longnose sucker	400	776			0		
	0505	2	4742	Largescale sucker	554	1958			0		
	0505	2	4743	Largescale sucker	466	1294			0		
	0505	2	4744	Longnose sucker	417	910			0		
	0505	2	4745	Longnose sucker	328	470			0		
	0505	2	4746	Longnose sucker	406	870			0		
	0505	2	4747	Longnose sucker	264	228			0		
	0505	2	4748	Longnose sucker	242	176			0		
	0505	2	4749	Longnose sucker	344	536			0		
	0505	2	4750	Longnose sucker	346	492			0		
	0505	2	4751	Longnose sucker	379	692			0		
	0505	2	4752	Longnose sucker	361	610			0		
	0505	2	4753	Longnose sucker	380	684			0		
	0505	2	4754	Arctic grayling	325	436	Scales	3	0	PIT	:000000089378
	0505	2	4755	Longnose sucker	382	742			0		
	0505	2	4756	Longnose sucker	238	148			0		
	0505	2	4757	Longnose sucker	230	158			0		
	0505	2	4758	Longnose sucker	388	742			0		
	0505	2	4759	Longnose sucker	395	758			0		
	0505	2	4760	Longnose sucker	337	440			0		
	0505	2	4761	Longnose sucker	249	240			0		
	0505	2	4762	Longnose sucker	303	348			0		
	0505	2	4763	Mountain whitefish	460	976	Scales		2	PIT	:000000093678
	0505	2	4764	Mountain whitefish	400	744	Scales		2	PIT	:000000077681
	0505	2	4765	Longnose sucker	207	122			0		
	0505	2	4766	Mountain whitefish	295	334	Scales		2	PIT	0A00717415
	0505	2	4767	Largescale sucker	275	252			0		
	0505	2	4768	Mountain whitefish	220	118	Scales		0		
	0505	2	4769	Mountain whitefish	332	428	Scales		0	PIT	:000000092418
	0505	2	4770	Mountain whitefish	345	478	Scales	7	2	PIT	0A00711520
	0505	2	4771	Mountain whitefish	330	422	Scales		0	PIT	:000000086495
	0505	2	4772	Largescale sucker	245	164			0		
	0505	2	4773	Mountain whitefish	336	420	Scales		0	PIT	:000000085963
	0505	2	4774	Mountain whitefish	319	352	Scales		0	PIT	:000000089247
	0505	2	4775	Mountain whitefish	182	72	Scales		0		
	0505	2	4776	Mountain whitefish	196	74	Scales		0		
	0505	2	4777	Mountain whitefish	282	236	Scales		0	PIT	:000000089343
	0505	2	4778	Mountain whitefish	289	240	Scales		0	PIT	:000000092267
	0505	2	4779	Mountain whitefish	242	158	Scales		0		
	0505	2	4780	Longnose sucker	129	26			0		
	0505	2	4781	Longnose sucker	198	94			0		
	0505	2	4782	Mountain whitefish	208	94	Scales		0		
	0505	2	4783	Mountain whitefish	198	74	Scales		0		
	0505	2	4784	Mountain whitefish	205	92	Scales		0		
	0505	2	4785	Mountain whitefish	208	78	Scales	2	0		
	0505	2	4786	Mountain whitefish	192	70	Scales		0		
	0505	2	4787	Mountain whitefish	286	256	Scales		0	PIT	:000000079081
	0506	2	4788	Longnose sucker	440	574			0		
	0506	2	4789	Largescale sucker	493	1706			0		
	0506	2	4790	Longnose sucker	407	886			0		
	0506	2	4791	Longnose sucker	400	535			0		
	0506	2	4792	Longnose sucker	325	512			0		
	0506	2	4793	Longnose sucker	382	730			0		
	0506	2	4794	Longnose sucker	243	182			0		

Appendix C Table C1. Biological characteristics data for sampled fish, 2008 Peace River Fish Community Indexing Program.

Area and Site Label	Session	FishID	Common Name	Fork Length (mm)	Weight (gm)	Age Structure	Age	Capture Code	Tag		
									Type	Number	Colour
5											
0506	2	4795	Longnose sucker	380	674			0			
0506	2	4796	Longnose sucker	312	406			0			
0506	2	4797	Longnose sucker	326	394			0			
0506	2	4798	Longnose sucker	370	640			0			
0506	2	4799	Longnose sucker	357	504			0			
0506	2	4800	Largescale sucker	412	814			0			
0506	2	4801	Longnose sucker	305	362			0			
0506	2	4802	Longnose sucker	220	136			0			
0506	2	4803	Longnose sucker	220	142			0			
0506	2	4804	Largescale sucker	457	1300			0			
0506	2	4805	Longnose sucker	268	234			0			
0506	2	4806	Longnose sucker	235	140			0			
0506	2	4807	Longnose sucker	340	504			0			
0506	2	4808	Longnose sucker	232	158			0			
0506	2	4809	Longnose sucker	381	724			0			
0506	2	4810	Longnose sucker	417	1132			0			
0506	2	4811	Longnose sucker	235	158			0			
0506	2	4812	Longnose sucker	387	718			0			
0506	2	4813	Longnose sucker	233	162			0			
0506	2	4814	Mountain whitefish	332	356	Scales		0	PIT		:000000090957
0506	2	4815	Mountain whitefish	364	478	Scales		0	PIT		:000000079310
0506	2	4816	Arctic grayling	356	564	Scales	3	0	PIT		:000000092608
0506	2	4817	Mountain whitefish	402	692	Scales	8	0	PIT		:000000086501
0506	2	4818	Longnose sucker	308	368			0			
0506	2	4819	Mountain whitefish	333	396	Scales		0	PIT		:000000085605
0506	2	4820	Mountain whitefish	358	510	Scales		0	PIT		:000000080750
0506	2	4821	Mountain whitefish	374	592	Scales		0	PIT		:000000090481
0506	2	4822	Mountain whitefish	347	516	Scales		2	PIT		4D00027021
0506	2	4823	Rainbow trout	341	462			0			
0506	2	4824	Mountain whitefish	280	226	Scales		0	PIT		:000000092278
0506	2	4825	Mountain whitefish	333	420	Scales		0	PIT		:000000078436
0506	2	4826	Mountain whitefish	303	312	Scales		2	PIT		:000000246591
0506	2	4827	Mountain whitefish	194	70	Scales		0			
0506	2	4828	Walleye	419	872			0			
0506	2	4829	Walleye	470	1202			0			
0506	2	4830	Mountain whitefish	331	338	Scales		0	PIT		:000000077933
0506	2	4831	Mountain whitefish	366	526	Scales		0	PIT		:000000082175
0506	2	4832	Mountain whitefish	324	354	Scales		0	PIT		:000000078329
0506	2	4833	Mountain whitefish	317	340	Scales		2	PIT		0A00745214
0506	2	4834	Arctic grayling	278	256	Scales	2	0			
0506	2	4835	Mountain whitefish	419	770	Scales		0	PIT		:000000083530
0506	2	4836	Longnose sucker	339	466			0			
0506	2	4837	Mountain whitefish	210	98	Scales		0			
0506	2	4838	Mountain whitefish	423	910	Scales		0	PIT		:000000083735
0506	2	4839	Largescale sucker	228	138			0			
0506	2	4840	Longnose sucker	147	36			0			
0506	2	4841	Longnose sucker	242	188			0			
0506	2	4842	Longnose sucker	280	302			0			
0506	2	4843	Longnose sucker	338	546			0			
0506	2	4844	Longnose sucker	287	306			0			
0506	2	4845	Mountain whitefish	245	156	Scales		0			
0506	2	4846	Mountain whitefish	230	138	Scales		0			
0506	2	4847	Mountain whitefish	293	316	Scales		2	PIT		0A00751676
0506	2	4848	Mountain whitefish	198	80	Scales		0			
0506	2	4849	Mountain whitefish	273	222	Scales		0	PIT		:000000081096
0506	2	4850	Largescale sucker	123	18			0			
0506	2	4851	Largescale sucker	159	46			0			
0506	2	4852	Bull trout	368	478	Fin Ray	4	0	PIT		:000000077798
0506	2	4853	Bull trout	417	722	Fin Ray	4	0	PIT		:000000073116
0506	2	4854	Bull trout	472	1062	Fin Ray	4	0	PIT		:000000082163
0506	2	4855	Mountain whitefish	280	256	Scales		0	PIT		:000000080737
0507	2	4856	Rainbow trout	172	56			0			
0507	2	4857	Longnose sucker	360	586			0			
0507	2	4858	Longnose sucker	372	742			0			

Appendix C Table C1. Biological characteristics data for sampled fish, 2008 Peace River Fish
Community Indexing Program.

Area and Site Label	Session	FishID	Common Name	Fork Length (mm)	Weight (gm)	Age Structure	Age	Capture Code	Tag			
									Type	Number	Colour	
5	0507	2	4859	Longnose sucker	327	412		0				
	0507	2	4860	Longnose sucker	400	818		0				
	0507	2	4861	Longnose sucker	370	642		0				
	0507	2	4862	Arctic grayling	323	442	Scales	3	0	PIT	:000000247936	
	0507	2	4863	Mountain whitefish	321	400	Scales	0	0	PIT	:000000248276	
	0507	2	4864	Mountain whitefish	269	298	Scales	0	0			
	0507	2	4865	Mountain whitefish	337	412	Scales	0	0	PIT	:000000247942	
	0507	2	4866	Mountain whitefish	194	82	Scales	0	0			
	0507	2	4867	Mountain whitefish	398	706	Scales	0	0	PIT	:000000248170	
	0507	2	4868	Mountain whitefish	265	192	Scales	2	2	PIT	:000000248249	
	0507	2	4869	Mountain whitefish	211	104	Scales	0	0			
	0507	2	4870	Mountain whitefish	292	274	Scales	2	2	PIT	:000000246987	
	0507	2	4871	Mountain whitefish	375	602	Scales	0	0	PIT	:000000247922	
	0507	2	4872	Mountain whitefish	310	316	Scales	0	0	PIT	:000000247332	
	0507	2	4873	Mountain whitefish	274	230	Scales	0	0	PIT	:000000247556	
	0507	2	4874	Mountain whitefish	163	48	Scales	0	0			
	0507	2	4875	Mountain whitefish	290	272	Scales	2	2	PIT	:000000244562	
	0507	2	4876	Mountain whitefish	311	344	Scales	0	0	PIT	:000000247527	
	0507	2	4877	Longnose sucker	323	474		0	0			
	0507	2	4878	Mountain whitefish	194	74	Scales	0	0			
	0507	2	4879	Rainbow trout	204	112		0	0			
	0507	2	4880	Mountain whitefish	221	114	Scales	0	0			
	0507	2	4881	Mountain whitefish	215	96	Scales	2	0			
	0507	2	4882	Mountain whitefish	197	78	Scales	0	0			
	0507	2	4883	Mountain whitefish	307	352	Scales	5	0	PIT	:000000248076	
	0507	2	4884	Mountain whitefish	164	46	Scales	0	0			
	0507	2	4885	Mountain whitefish	331	442	Scales	0	0	PIT	:000000247584	
	0507	2	4886	Mountain whitefish	303	310	Scales	0	0	PIT	:000000090028	
	0507	2	4887	Mountain whitefish	303	338	Scales	2	2	PIT	0A00726525	
	0507	2	4888	Mountain whitefish	182	72	Scales	0	0			
	0507	2	4889	Mountain whitefish	350	454	Scales	0	0	PIT	:000000090165	
	0507	2	4890	Mountain whitefish	194	64	Scales	0	0			
	0507	2	4891	Mountain whitefish	206	94	Scales	0	0			
	0507	2	4892	Walleye	573	2230		0	0			
	0507	2	4893	Arctic grayling	320	370	Scales	3	0	PIT	:000000084940	
	0507	2	4894	Arctic grayling	352	508	Scales	2	2	PIT	:000000248097	
	0507	2	4895	Longnose sucker	433	1024		0	0			
	0507	2	4896	Walleye	351	496		0	0			
	0507	2	4897	Longnose sucker	365	586		0	0			
	0507	2	4898	Longnose sucker	377	614		0	0			
	0507	2	4899	Mountain whitefish	400	684	Scales	0	0	PIT	:000000078702	
	0507	2	4900	Mountain whitefish	287	240	Scales	0	0	PIT	:000000087023	
	0507	2	4901	Mountain whitefish	367	570	Scales	0	0	PIT	:000000109629	
	0507	2	4902	Mountain whitefish	357	450	Scales	2	2	PIT	4D00033952	
	0507	2	4903	Mountain whitefish	360	493	Scales	6	0	PIT	:000000082737	
	0507	2	4904	Mountain whitefish	370	504	Scales	2	2	FLOY	13894	WHITE
	0507	2	4905	Mountain whitefish	334	424	Scales	0	0	PIT	:000000109736	
	0507	2	4906	Mountain whitefish	305	312	Scales	0	0	PIT	:000000092505	
	0507	2	4907	Mountain whitefish	304	314	Scales	0	0	PIT	:000000084897	
	0507	2	4908	Mountain whitefish	392	644	Scales	2	2	PIT	4D00034877	
	0507	2	4909	Mountain whitefish	195	74	Scales	0	0			
	0507	2	4910	Mountain whitefish	417	780	Scales	0	0	PIT	:000000091677	
	0507	2	4911	Mountain whitefish	350	450	Scales	2	2	PIT	4D00026816	
	0507	2	4912	Longnose sucker	213	102		0	0			
	0507	2	4913	Mountain whitefish	253	198	Scales	0	0	PIT	:000000083964	
	0507	2	4914	Longnose sucker	357	454		0	0			
	0507	2	4915	Mountain whitefish	282	228	Scales	2	2	PIT	:000000247460	
	0507	2	4916	Longnose sucker	213	118		0	0			
	0507	2	4917	Mountain whitefish	238	148	Scales	0	0			
	0507	2	4918	Mountain whitefish	392	680	Scales	0	0	PIT	:000000109634	
	0507	2	4919	Mountain whitefish	295	284	Scales	0	0	PIT	:000000077778	
	0507	2	4920	Mountain whitefish	382	590	Scales	0	0	PIT	:000000073289	
	0507	2	4921	Mountain whitefish	356	506	Scales	6	2	PIT	0A00710506	
	0507	2	4922	Mountain whitefish	323	372	Scales	2	2	PIT	0A00717068	

Appendix C Table C1. Biological characteristics data for sampled fish, 2008 Peace River Fish Community Indexing Program.

Area and Site Label	Session	FishID	Common Name	Fork Length (mm)	Weight (gm)	Age Structure	Age	Capture Code	Tag			
									Type	Number	Colour	
5	0507	2	4923	Mountain whitefish	187	64	Scales	0				
	0507	2	4924	Mountain whitefish	189	62	Scales	0				
	0507	2	4925	Mountain whitefish	394	688	Scales	0	PIT	000000078202		
	0507	2	4926	Mountain whitefish	368	472	Scales	2	PIT	4D00020260		
	0507	2	4927	Mountain whitefish	348	400	Scales	2	PIT	0A00712320		
	0507	2	4928	Mountain whitefish	327	376	Scales	0	PIT	000000109863		
	0507	2	4929	Mountain whitefish	273	346	Scales	0	PIT	000000093603		
	0507	2	4930	Mountain whitefish	290	274	Scales	0	PIT	000000086451		
	0507	2	4931	Mountain whitefish	333	378	Scales	0	PIT	000000078821		
	0507	2	4932	Mountain whitefish	339	428	Scales	0	PIT	000000092935		
	0507	2	4933	Mountain whitefish	293	292	Scales	0	PIT	000000091912		
	0507	2	4934	Mountain whitefish	340	392	Scales	0	PIT	000000110225		
	0507	2	4935	Mountain whitefish	306	342	Scales	2	PIT	4D00035551		
	0507	2	4936	Mountain whitefish	292	274	Scales	0	PIT	000000080009		
	0507	2	4937	Mountain whitefish	275	214	Scales	2	PIT	000000247954		
	0507	2	4938	Longnose sucker	233	148		0				
	0507	2	4939	Mountain whitefish	245	152	Scales	0				
	0507	2	4940	Mountain whitefish	222	104	Scales	0				
	0507	2	4941	Longnose sucker	193	80		0				
	0507	2	4942	Mountain whitefish	350	432	Scales	0	PIT	000000077782		
	0507	2	4943	Mountain whitefish	272	212	Scales	4	0	PIT	000000073077	
	0507	2	4944	Mountain whitefish	392	562	Scales	2	PIT	4D00034217		
	0507	2	4945	Mountain whitefish	197	88	Scales	0				
	0507	2	4946	Mountain whitefish	284	274	Scales	0	PIT	000000085527		
	0510	2	4947	Longnose sucker	452	1038		0				
	0510	2	4948	Arctic grayling	247	204	Scales	2	0			
	0510	2	4949	Mountain whitefish	430	936	Scales	2	PIT	0A00727874		
	0510	2	4950	Mountain whitefish	448	868	Scales	2	FLOY	14903	WHITE	
	0510	2	4951	Walleye	403	834		0				
	0510	2	4952	Walleye	421	870		0				
	0510	2	4953	Arctic grayling	325	456	Scales	3	0	PIT	000000082837	
	0510	2	4954	Arctic grayling	169	60	Scales	1	0			
	0510	2	4955	Mountain whitefish	338	404	Scales	5	0	PIT	000000090340	
	0510	2	4956	Bull trout	387	596		4	2	PIT	000000246281	
	0510	2	4957	Longnose sucker	375	624		0				
	0510	2	4958	Mountain whitefish	90	6	Scales	0				
	0510	2	4959	Largescale sucker	256	188		0				
	0510	2	4960	Longnose sucker	393	788		0				
	0510	2	4961	Longnose sucker	385	798		0				
	0510	2	4962	Largescale sucker	444	1068		0				
	0510	2	4963	Longnose sucker	404	824		0				
	0510	2	4964	Longnose sucker	368	654		0				
	0510	2	4965	Bull trout	462	926	Fin Ray	4	0	PIT	000000090468	
	0510	2	4966	Mountain whitefish	374	618	Scales	0	PIT	000000091784		
	0510	2	4967	Longnose sucker	261	204		0				
	0510	2	4968	Longnose sucker	212	114		0				
	0510	2	4969	Mountain whitefish	405	732	Scales	2	FLOY	13935	WHITE	
	0510	2	4970	Mountain whitefish	333	376	Scales	2	PIT	000000245073		
	0510	2	4971	Arctic grayling	282	288	Scales	2	0	PIT	000000089371	
	0510	2	4972	Mountain whitefish	192	70	Scales	0				
	0510	2	4973	Mountain whitefish	332	386	Scales	0	PIT	000000083830		
	0510	2	4974	Longnose sucker	370	620		0				
	0510	2	4975	Longnose sucker	350	532		0				
	0510	2	4976	Mountain whitefish	423	854	Scales	0	PIT	000000073092		
	0510	2	4977	Mountain whitefish	327	386	Scales	2	PIT	0A00712328		
	0510	2	4978	Longnose sucker	392	808		0				
	0510	2	4979	Mountain whitefish	356	462	Scales	0	PIT	000000083893		
	0510	2	4980	Mountain whitefish	430	790	Scales	2	PIT	000000247733		
	0510	2	4981	Mountain whitefish	266	230	Scales	0				
	0510	2	4982	Mountain whitefish	358	464	Scales	2	PIT	000000247943		
	0510	2	4983	Mountain whitefish	324	366	Scales	0	PIT	000000079864		
	0510	2	4984	Mountain whitefish	258	192	Scales	0	PIT	000000085879		
	0510	2	4985	Mountain whitefish	270	244	Scales	0	PIT	000000082736		
	0510	2	4986	Mountain whitefish	268	210	Scales	0	PIT	000000110197		

Appendix C Table C1. Biological characteristics data for sampled fish, 2008 Peace River Fish Community Indexing Program.

Area and Site Label	Session	FishID	Common Name	Fork Length (mm)	Weight (gm)	Age Structure	Age	Capture Code	Tag		
									Type	Number	Colour
5											
	0510	2	4987	Mountain whitefish	207	96	Scales	0			
	0510	2	4988	Longnose sucker	231	162		0			
	0510	2	4989	Longnose sucker	236	160		0			
	0510	2	4990	Mountain whitefish	366	624	Scales	2	PIT	0A00726740	
	0510	2	4991	Mountain whitefish	248	162	Scales	3	0		
	0510	2	4992	Mountain whitefish	262	192	Scales	0	PIT	:000000089021	
	0510	2	4993	Mountain whitefish	305	316	Scales	0	PIT	:000000073097	
	0510	2	4994	Mountain whitefish	260	206	Scales	0	PIT	:000000093644	
	0510	2	4995	Mountain whitefish	304	382	Scales	0	PIT	:000000086585	
	0510	2	4996	Mountain whitefish	292	242	Scales	0	PIT	:000000084287	
	0510	2	4997	Mountain whitefish	304	312	Scales	0	PIT	:000000080382	
	0510	2	4998	Mountain whitefish	192	80	Scales	0			
	0510	2	4999	Rainbow trout	167	50		0			
	0510	2	5000	Mountain whitefish	269	192	Scales	2	PIT	:000000245372	
	0510	2	5001	Mountain whitefish	340	382	Scales	2	FLOY	13929	WHITE
	0510	2	5002	Mountain whitefish	281	358	Scales	0	PIT	:000000085241	
	0510	2	5003	Mountain whitefish	200	84	Scales	0			
	0510	2	5004	Arctic grayling	185	70	Scales	1	0		
	0510	2	5005	Longnose sucker	115	16		0			
	0510	2	5006	Mountain whitefish	316	362	Scales	0	PIT	:000000078438	
	0510	2	5007	Mountain whitefish	303	284	Scales	0	PIT	:000000077380	
	0510	2	5008	Mountain whitefish	202	80	Scales	0			
	0510	2	5009	Mountain whitefish	274	230	Scales	4	0	PIT	:000000087949
	0510	2	5010	Mountain whitefish	353	490	Scales	2	PIT	:000000244094	
	0510	2	5011	Mountain whitefish	290	278	Scales	0	PIT	:000000081943	
	0510	2	5012	Mountain whitefish	187	62	Scales	0			
	0510	2	5013	Mountain whitefish	259	196	Scales	0	PIT	:000000091818	
	0510	2	5014	Mountain whitefish	263	196	Scales	0	PIT	:000000081104	
	0510	2	5015	Mountain whitefish	192	74	Scales	0			
	0510	2	5016	Arctic grayling	152	40	Scales	1	0		
	0510	2	5017	Mountain whitefish	323	366	Scales	0	PIT	:000000086206	
	0510	2	5018	Mountain whitefish	279	250	Scales	0	PIT	:000000089231	
	0510	2	5019	Mountain whitefish	194	76	Scales	0			
	0510	2	5020	Mountain whitefish	202	80	Scales	2	0		
	0510	2	5021	Mountain whitefish	204	90	Scales	0			
	0510	2	5022	Mountain whitefish	196	86	Scales	0			
	0510	2	5023	Mountain whitefish	195	78	Scales	0			
	0510	2	5024	Mountain whitefish	197	90	Scales	0			
	0510	2	5025	Mountain whitefish	146	30	Scales	0			
	0512	2	5026	Longnose sucker	419	970		0			
	0512	2	5027	Longnose sucker	397	932		0			
	0512	2	5028	Longnose sucker	327	444		0			
	0512	2	5029	Longnose sucker	387	734		0			
	0512	2	5030	Longnose sucker	470	1380		0			
	0512	2	5031	Longnose sucker	426	1090		0			
	0512	2	5032	Largescale sucker	551	1988		0			
	0512	2	5033	Largescale sucker	494	1566		0			
	0512	2	5034	Longnose sucker	401	916		0			
	0512	2	5035	Longnose sucker	426	916		0			
	0512	2	5036	Longnose sucker	425	906		0			
	0512	2	5037	Longnose sucker	419	920		0			
	0512	2	5038	Longnose sucker	417	896		0			
	0512	2	5039	White sucker	396	662		0			
	0512	2	5040	Mountain whitefish	464		Scales	2	PIT	:000000243984	
	0512	2	5041	Mountain whitefish	315		Scales	0	PIT	:000000080626	
	0512	2	5042	Mountain whitefish	437	854	Scales	2	PIT	:000000239242	
	0512	2	5043	Mountain whitefish	202	74	Scales	0			
	0512	2	5044	Mountain whitefish	354	522	Scales	0	PIT	:000000083576	
	0512	2	5045	Mountain whitefish	336	440	Scales	0	PIT	:000000109974	
	0512	2	5046	Mountain whitefish	202	88	Scales	0			
	0512	2	5047	Bull trout	388	588		2	PIT	:000000246281	
	0512	2	5048	Mountain whitefish	371	506	Scales	6	0	PIT	:000000088381
	0512	2	5049	Mountain whitefish	289	270	Scales	0	PIT	:000000091789	
	0512	2	5050	Mountain whitefish	298	276	Scales	0	PIT	:000000087267	

Appendix C Table C1. Biological characteristics data for sampled fish, 2008 Peace River Fish Community Indexing Program.

Area and Site Label	Session	FishID	Common Name	Fork Length (mm)	Weight (gm)	Age Structure	Age	Capture Code	Tag		
									Type	Number	Colour
5											
	0512	2	5051	Mountain whitefish	198	70	Scales	0			
	0512	2	5052	Mountain whitefish	345	352	Scales	2	PIT	4D00025374	
	0512	2	5053	Mountain whitefish	341	420	Scales	0	PIT	000000091572	
	0512	2	5054	Mountain whitefish	375	532	Scales	0	PIT	000000088089	
	0512	2	5055	Mountain whitefish	206	96	Scales	0			
	0512	2	5056	Mountain whitefish	313	324	Scales	0	PIT	000000090717	
	0512	2	5057	Mountain whitefish	367	502	Scales	0	PIT	000000109850	
	0512	2	5058	Mountain whitefish	351	488	Scales	0	PIT	000000079358	
	0512	2	5059	Mountain whitefish	260	188	Scales	0	PIT	000000085841	
	0512	2	5060	Mountain whitefish	307	302	Scales	0	PIT	000000110493	
	0512	2	5061	Mountain whitefish	293	312	Scales	0	PIT	000000084489	
	0512	2	5062	Mountain whitefish	206	106	Scales	0			
	0512	2	5063	Mountain whitefish	295	282	Scales	0	PIT	000000088992	
	0512	2	5064	Mountain whitefish	190	72	Scales	0			
	0512	2	5065	Mountain whitefish	193	72	Scales	2	0		
	0512	2	5066	Mountain whitefish	154	40	Scales	0			
	0512	2	5067	Mountain whitefish	285	248	Scales	0	PIT	000000087432	
	0512	2	5068	Mountain whitefish	202	80	Scales	0			
	0512	2	5069	Mountain whitefish	295	294	Scales	0	PIT	000000078077	
	0512	2	5070	Longnose sucker	192	80		0			
	0512	2	5071	Mountain whitefish	185		Scales	0			
	0512	2	5072	Mountain whitefish	197	84	Scales	0			
	0512	2	5073	Mountain whitefish	259	202	Scales	3	0	PIT	000000090946
	0512	2	5074	Mountain whitefish	176	50	Scales	0			
	0512	2	5075	Arctic grayling	263		Scales	0			
	0511	2	5076	Mountain whitefish	381	608	Scales	2	PIT	4D00023045	
	0511	2	5077	Mountain whitefish	404	742	Scales	0	PIT	000000109731	
	0511	2	5078	Mountain whitefish	269	260	Scales	0	PIT	000000086000	
	0511	2	5079	Mountain whitefish	283	276	Scales	2	PIT	000000247307	
	0511	2	5080	Mountain whitefish	332	390	Scales	0	PIT	000000090988	
	0511	2	5081	Longnose sucker	296	350		0			
	0511	2	5082	Mountain whitefish	258	182	Scales	0	PIT	000000090176	
	0511	2	5083	Mountain whitefish	402	722	Scales	2	FLOY	13935	WHITE
	0511	2	5084	Mountain whitefish	302	326	Scales	2	PIT	4D00032069	
	0511	2	5085	Mountain whitefish	300	304	Scales	0	PIT	000000089899	
	0511	2	5086	Longnose sucker	352	586		0			
	0511	2	5087	Longnose sucker	407	800		0			
	0511	2	5088	Mountain whitefish	364	410	Scales	0	PIT	000000093307	
	0511	2	5089	Mountain whitefish	351	518	Scales	0	PIT	000000089220	
	0511	2	5090	Mountain whitefish	322	430	Scales	0	PIT	000000080754	
	0511	2	5091	Mountain whitefish	258	188	Scales	0	PIT	000000085973	
	0511	2	5092	Mountain whitefish	323	392	Scales	2	PIT	4D00034278	
	0511	2	5093	Mountain whitefish	193	94	Scales	0			
	0511	2	5094	Mountain whitefish	286	242	Scales	2	PIT	000000245524	
	0511	2	5095	Mountain whitefish	303	342	Scales	0	PIT	000000076973	
	0511	2	5096	Mountain whitefish	150	28	Scales	0			
	0511	2	5097	Mountain whitefish	181	58	Scales	0			
	0511	2	5098	Rainbow trout	202	118		0			
	0511	2	5099	Bull trout	454	916	Fin Ray	5	0	PIT	000000077663
	0515	2	5100	Longnose sucker	369	674		0			
	0515	2	5101	Longnose sucker	408	958		0			
	0515	2	5102	Longnose sucker	417	912		0			
	0515	2	5103	Longnose sucker	510	1438		0			
	0515	2	5104	Longnose sucker	448	1140		0			
	0515	2	5105	Longnose sucker	406	894		0			
	0515	2	5106	Longnose sucker	350	536		0			
	0515	2	5107	Longnose sucker	398	776		0			
	0515	2	5108	Longnose sucker	365	652		0			
	0515	2	5109	Largescale sucker	466	1242		0			
	0515	2	5110	Longnose sucker	444	958		0			
	0515	2	5111	Longnose sucker	485	1466		0			
	0515	2	5112	Longnose sucker	432	1022		2	FLOY	1577	ORANGE
	0515	2	5113	Longnose sucker	407	862		0			
	0515	2	5114	Longnose sucker	354	588		0			

Appendix C Table C1. Biological characteristics data for sampled fish, 2008 Peace River Fish Community Indexing Program.

Area and Site Label	Session	FishID	Common Name	Fork Length (mm)	Weight (gm)	Age Structure	Age	Capture Code	Tag Type	Tag Number	Colour
5	0515	2	5115	Longnose sucker	470	1194		0			
	0515	2	5116	Longnose sucker	470	1346		0			
	0515	2	5117	Longnose sucker	405	882		0			
	0515	2	5118	Longnose sucker	393	814		0			
	0515	2	5119	Longnose sucker	330	444		0			
	0515	2	5120	Longnose sucker	360	576		0			
	0515	2	5121	Longnose sucker	354	590		0			
	0515	2	5122	Longnose sucker	405	890		0			
	0515	2	5123	Longnose sucker	387	708		0			
	0515	2	5124	Longnose sucker	411	936		0			
	0515	2	5125	Longnose sucker	347	548		0			
	0515	2	5126	Mountain whitefish	386	674	Scales	2	PIT	0A00744564	
	0515	2	5127	Mountain whitefish	283	250	Scales	0	PIT	:000000090168	
	0515	2	5128	Mountain whitefish	382	622	Scales	0	PIT	:000000089660	
	0515	2	5129	Mountain whitefish	459	964	Scales	8	0	PIT	:000000090616
	0515	2	5130	Mountain whitefish	368	474	Scales	0	PIT	:000000092151	
	0515	2	5131	Mountain whitefish	393	660	Scales	0	PIT	:000000080270	
	0515	2	5132	Mountain whitefish	303	362	Scales	2	PIT	:000000247888	
	0515	2	5133	Mountain whitefish	364	536	Scales	5			
	0515	2	5134	Mountain whitefish	317	308	Scales	0	PIT	:000000110213	
	0515	2	5135	Mountain whitefish	344	448	Scales	0	PIT	:000000090983	
	0515	2	5136	Mountain whitefish	268	256	Scales	0			
	0515	2	5137	Mountain whitefish	264	200	Scales	0	PIT	:000000087262	
	0515	2	5138	Mountain whitefish	332	372	Scales	4	0	PIT	:000000092703
	0515	2	5139	Mountain whitefish	340	450	Scales	0	PIT	:000000086719	
	0515	2	5140	Mountain whitefish	232	136	Scales	0			
	0515	2	5141	Mountain whitefish	340	458	Scales	0	PIT	:000000089130	
	0515	2	5142	Mountain whitefish	326	350	Scales	0	PIT	:000000085895	
	0515	2	5143	Mountain whitefish	351	506	Scales	0	PIT	:000000089896	
	0515	2	5144	Longnose sucker	239	162		0			
	0515	2	5145	Mountain whitefish	282	266	Scales	0	PIT	:000000110372	
	0515	2	5146	Mountain whitefish	289	276	Scales	0	PIT	:000000086132	
	0515	2	5147	Mountain whitefish	323	352	Scales	0	PIT	:000000076959	
	0515	2	5148	Mountain whitefish	245	158	Scales	0			
	0515	2	5149	Mountain whitefish	393	610	Scales	0	PIT	:000000076836	
	0515	2	5150	Mountain whitefish	327	406	Scales	2	FLOY	16268	WHITE
	0515	2	5151	Mountain whitefish	353	452	Scales	0	PIT	:000000092934	
	0515	2	5152	Mountain whitefish	290	284	Scales	4	0	PIT	:000000083974
	0515	2	5153	Mountain whitefish	291	270	Scales	0	PIT	:000000109975	
	0515	2	5154	Mountain whitefish	263	192	Scales	0	PIT	:000000090952	
	0515	2	5155	Mountain whitefish	350	498	Scales	0	PIT	:000000080502	
	0515	2	5156	Mountain whitefish	334		Scales	0	PIT	:000000078197	
	0515	2	5157	Mountain whitefish	298	334	Scales	0	PIT	:000000091462	
	0515	2	5158	Mountain whitefish	355	464	Scales	0	PIT	:000000091547	
	0515	2	5159	Mountain whitefish	251	178	Scales	2	PIT	:999999999999	
	0515	2	5160	Mountain whitefish	277	218	Scales	0	PIT	:000000088553	
	0515	2	5161	Mountain whitefish	313	298	Scales	0	PIT	:000000077108	
	0515	2	5162	Mountain whitefish	306	338	Scales	0	PIT	:000000092810	
	0515	2	5163	Mountain whitefish	206	88	Scales	0			
	0513	2	5164	Arctic grayling	250	176	Scales	2	0	PIT	:000000089759
	0513	2	5165	Mountain whitefish	398	712	Scales	0	PIT	:000000078554	
	0513	2	5166	Mountain whitefish	404	740	Scales	0	PIT	:000000089649	
	0513	2	5167	Mountain whitefish	359	510	Scales	2	PIT	0A00710504	
	0513	2	5168	Mountain whitefish	383	628	Scales	2	PIT	:000000089660	
	0513	2	5169	Mountain whitefish	383	624	Scales	2	PIT	0A00727740	
	0513	2	5170	Longnose sucker	300	372		0			
	0513	2	5171	Mountain whitefish	350	420	Scales	2	PIT	:000000245764	
	0513	2	5172	Mountain whitefish	251	166	Scales	0	PIT	:000000092038	
	0513	2	5173	Mountain whitefish	333	382	Scales	0	PIT	:000000083495	
	0513	2	5174	Mountain whitefish	337	454	Scales	2	PIT	:000000089130	
	0513	2	5175	Mountain whitefish	391	654	Scales	2	PIT	:000000246749	
	0513	2	5176	Mountain whitefish	325	382	Scales	0	PIT	:000000110100	
	0513	2	5177	Mountain whitefish	243	150	Scales	0			
	0513	2	5178	Mountain whitefish	270	200	Scales	0	PIT	:000000110615	

Appendix C Table C1. Biological characteristics data for sampled fish, 2008 Peace River Fish Community Indexing Program.

Area and Site Label	Session	FishID	Common Name	Fork Length (mm)	Weight (gm)	Age Structure	Age	Capture Code	Tag				
									Type	Number	Colour		
5	0513	2	5179	Mountain whitefish	285	244	Scales	0	PIT	:000000079032			
	0513	2	5180	Mountain whitefish	330	400	Scales	2	PIT	:000000245280			
	0513	2	5181	Mountain whitefish	408	568	Scales	2	PIT	4D00050222			
	0513	2	5182	Mountain whitefish	366	518	Scales	0	PIT	:000000092189			
	0513	2	5183	Mountain whitefish	313	314	Scales	0	PIT	:000000110356			
	0513	2	5184	Mountain whitefish	202	84	Scales	0					
	0513	2	5185	Mountain whitefish	353	498	Scales	0	PIT	:000000081587			
	0513	2	5186	Mountain whitefish	330	446	Scales	0	PIT	:000000080515			
	0513	2	5187	Mountain whitefish	410	830	Scales	0	PIT	:000000077659			
	0513	2	5188	Mountain whitefish	150	34	Scales	0					
	0513	2	5189	Mountain whitefish	143	30	Scales	0					
	0513	2	5190	Mountain whitefish	305	322	Scales	0	PIT	:000000082262			
	0513	2	5191	Mountain whitefish	288	264	Scales	0	PIT	:000000076701			
	0513	2	5192	Mountain whitefish	271	230	Scales	0	PIT	:000000090588			
	0513	2	5193	Mountain whitefish	184	64	Scales	0					
	0513	2	5194	Mountain whitefish	258	196	Scales	0	PIT	:000000081346			
	0513	2	5195	Mountain whitefish	252	170	Scales	0	PIT	:000000084048			
	0513	2	5196	Mountain whitefish	304	292	Scales	0	PIT	:000000085130			
	0514	2	5197	Mountain whitefish	419	880	Scales	5					
	0514	2	5198	Arctic grayling	316	382	Scales	2	0	PIT	:000000091902		
	0514	2	5199	Mountain whitefish	404	746	Scales	0	0	PIT	:000000091072		
	0514	2	5200	Mountain whitefish	454	1198	Scales	9	2	PIT	:000000244157		
	0514	2	5201	Mountain whitefish	463	1170	Scales	0	0	PIT	:000000110222		
	0514	2	5202	Longnose sucker	390	850		0	0				
	0514	2	5203	Mountain whitefish	357	406	Scales	0	0	PIT	:000000084894		
	0514	2	5204	Longnose sucker	366	726		0	0				
	0514	2	5205	Longnose sucker	376			0	0				
	0514	2	5206	Longnose sucker	403	906		0	0				
	0514	2	5207	Longnose sucker	355	602		0	0				
	0514	2	5208	Longnose sucker	407	844		2	0	FLOY	2061	ORANGE	
	0514	2	5209	Mountain whitefish	305	326	Scales	4	0	PIT	:000000077529		
	0514	2	5210	Longnose sucker	407	876		0	0				
	0514	2	5211	Longnose sucker	392	800		0	0				
	0514	2	5212	Mountain whitefish	363	508	Scales	0	0	PIT	:000000077961		
	0514	2	5213	Mountain whitefish	203	88	Scales	0	0				
	0514	2	5214	Mountain whitefish	464	1062	Scales	0	0	PIT	:000000091471		
	0514	2	5215	Mountain whitefish	444	872	Scales	2	0	FLOY	14102	WHITE	
	0514	2	5216	Mountain whitefish	398	648	Scales	0	0	PIT	:000000087264		
	0514	2	5217	Mountain whitefish	345	460	Scales	2	0	PIT	4D00030819		
	0514	2	5218	Mountain whitefish	372	628	Scales	2	0	PIT	:000000245497		
	0514	2	5219	Mountain whitefish	335	424	Scales	2	0	PIT	4D00024815		
	0514	2	5220	Mountain whitefish	316	386	Scales	0	0	PIT	:000000092809		
	0514	2	5221	Mountain whitefish	365	520	Scales	0	0	PIT	:000000089023		
	0514	2	5222	Mountain whitefish	340	438	Scales	0	0	PIT	:000000085528		
	0514	2	5223	Mountain whitefish	312	356	Scales	2	0	PIT	:000000245011		
	0514	2	5224	Mountain whitefish	312	334	Scales	4	2	PIT	:000000244881		
	0514	2	5225	Mountain whitefish	288	288	Scales	0	0	PIT	:000000079862		
	0514	2	5226	Mountain whitefish	320	364	Scales	0	0	PIT	:000000076559		
	0514	2	5227	Mountain whitefish	276	272	Scales	0	0	PIT	:000000084834		
	0514	2	5228	Mountain whitefish	306	294	Scales	2	0	PIT	:000000244237		
	0514	2	5229	Mountain whitefish	300	294	Scales	0	0	PIT	:000000110193		
	0514	2	5230	Mountain whitefish	310	332	Scales	0	0	PIT	:000000078774		
	0514	2	5231	Mountain whitefish	292	294	Scales	2	0	PIT	:000000245337		
	0514	2	5232	Mountain whitefish	279	244	Scales	3	0	PIT	:000000109846		
	0514	2	5233	Mountain whitefish	316	362	Scales	4	0	PIT	:000000078574		
	0514	2	5234	Mountain whitefish	192	70	Scales	0	0				
	0508	2	5235	Mountain whitefish	365	448	Scales	0	0	PIT	:000000081350		
	0508	2	5236	Mountain whitefish	305	350	Scales	0	0				
	0508	2	5237	Mountain whitefish	422	858	Scales	0	0	PIT	:000000090955		
	0508	2	5238	Mountain whitefish	363	552	Scales	0	0	PIT	:000000091104		
	0508	2	5239	Mountain whitefish	448	908	Scales	2	0	PIT	:000000238327		
	0508	2	5240	Mountain whitefish	336	432	Scales	0	0	PIT	:000000079494		
	0508	2	5241	Mountain whitefish	400	700	Scales	2	0	PIT	:000000244952		
	0508	2	5242	Largescale sucker	563	1886		0	0				

Appendix C Table C1. Biological characteristics data for sampled fish, 2008 Peace River Fish Community Indexing Program.

Area and Site Label	Session	FishID	Common Name	Fork Length (mm)	Weight (gm)	Age Structure	Age	Capture Code	Tag			
									Type	Number	Colour	
5												
0508	2	5243	Longnose sucker	374	523			0				
0508	2	5244	Mountain whitefish	392	624	Scales		0	PIT		:000000085134	
0508	2	5245	Mountain whitefish	339	406	Scales		0	PIT		:000000073070	
0508	2	5246	Mountain whitefish	320	342	Scales		0	PIT		:000000110234	
0508	2	5247	Mountain whitefish	323	374	Scales		0	PIT		:000000089015	
0508	2	5248	Mountain whitefish	323	410	Scales		0	PIT		:000000087032	
0508	2	5249	Mountain whitefish	350	508	Scales		0	PIT		:000000080628	
0508	2	5250	Mountain whitefish	402	586	Scales	7	0	PIT		:000000089257	
0508	2	5251	Mountain whitefish	321	350	Scales	4	0	PIT		:000000073249	
0508	2	5252	Mountain whitefish	342	488	Scales		0	PIT		:000000077098	
0508	2	5253	Mountain whitefish	370	542	Scales		0	PIT		:000000083828	
0508	2	5254	Mountain whitefish	183	68	Scales		0				
0508	2	5255	Mountain whitefish	200	74	Scales		0				
0508	2	5256	Longnose sucker	299	314			0				
0508	2	5257	Mountain whitefish	328	350	Scales		0	PIT		:000000088907	
0508	2	5258	Mountain whitefish	257	182	Scales		0	PIT		:000000079466	
0508	2	5259	Mountain whitefish	312	320	Scales		0	PIT		:000000078814	
0508	2	5260	Mountain whitefish	321	382	Scales		0	PIT		:000000092895	
0508	2	5261	Mountain whitefish	389	620	Scales	5	0	PIT		:000000086243	
0508	2	5262	Mountain whitefish	350	460	Scales		2	PIT		:000000247862	
0508	2	5263	Mountain whitefish	314	368	Scales		0	PIT		:000000091819	
0508	2	5264	Mountain whitefish	303	316	Scales		0	PIT		:000000082644	
0508	2	5265	Mountain whitefish	362	490	Scales		2	PIT		:000000247815	
0508	2	5266	Mountain whitefish	298	360	Scales		0	PIT		:000000085609	
0508	2	5267	Mountain whitefish	288	284	Scales		0	PIT		:000000089500	
0508	2	5268	Mountain whitefish	199	86	Scales		0				
0508	2	5269	Mountain whitefish	293	258	Scales		0	PIT		:000000076815	
0508	2	5270	Longnose sucker	280	260			0				
0508	2	5271	Largescale sucker	441	1202			0				
0508	2	5272	Longnose sucker	355	524			0				
0508	2	5273	Longnose sucker	398	766			0				
0508	2	5274	Mountain whitefish	318	372	Scales		0	PIT		:000000078352	
0508	2	5275	Mountain whitefish	158	40	Scales		0				
0508	2	5276	Mountain whitefish	354	464	Scales		2	FLOY	16499	WHITE	
0508	2	5277	Mountain whitefish	417	838	Scales		2	PIT		:000000246660	
0508	2	5278	Arctic grayling	191	90	Scales	1	0				
0508	2	5279	Mountain whitefish	283	246	Scales		0	PIT		:000000089936	
0508	2	5280	Mountain whitefish	197	74	Scales	2	0				
0508	2	5281	Mountain whitefish	278	240	Scales		0	PIT		:000000092711	
0508	2	5282	Mountain whitefish	301	328	Scales		2	PIT		:000000245668	
0508	2	5283	Mountain whitefish	352	412	Scales		2	PIT		:000000244744	
0508	2	5284	Largescale sucker	182	62			0				
0508	2	5285	Mountain whitefish	262	200	Scales		0	PIT		:000000093672	
0508	2	5286	Mountain whitefish	203	84	Scales		0				
0508	2	5287	Mountain whitefish	209	90	Scales		0				
0508	2	5288	Mountain whitefish	194	74	Scales		0				
0508	2	5289	Mountain whitefish	202	76	Scales		0				
0508	2	5290	Mountain whitefish	196	74	Scales	2	0				
0508	2	5291	Mountain whitefish	190	72	Scales		0				
0508	2	5292	Mountain whitefish	216	94	Scales		0				
0508	2	5293	Mountain whitefish	366	494	Scales		0	PIT		:000000087442	
0508	2	5294	Arctic grayling	275	270	Scales	2	0	PIT		:000000085403	
0508	2	5295	Rainbow trout	329	382			0				
0508	2	5296	Arctic grayling	343	518	Scales	3	2	PIT		:000000245225	
0508	2	5297	Mountain whitefish	381	634	Scales		0	PIT		:000000088279	
0508	2	5298	Arctic grayling	295	324	Scales	3	0	PIT		:000000083943	
0508	2	5299	Rainbow trout	336	430			0				
0508	2	5300	Arctic grayling	323	428	Scales		2	PIT		:000000237861	
0508	2	5301	Longnose sucker	129	26			0				
0508	2	5302	Bull trout	472	1010		5	2	PIT		:000000243345	
0503	3	6788	Longnose sucker	426	1104			0				
0503	3	6789	Mountain whitefish	200	86	Scales	2	0				
0503	3	6790	Longnose sucker	260	216			0				
0503	3	6791	Arctic grayling	385	682	Scales	3	0	PIT		:000000080978	

Capture Codes: 0 release; 1 mortality; 2 recapture; 3 recapture mortality; 4 recapture 2006 (no tag); 5 recapture before 06 (no tag); 9 intentional sacrifice.

Appendix C Table C1. Biological characteristics data for sampled fish, 2008 Peace River Fish Community Indexing Program.

Area and Site Label	Session	FishID	Common Name	Fork Length (mm)	Weight (gm)	Age Structure	Age	Capture Code	Tag			
									Type	Number	Colour	
5												
	0503	3	6792	Mountain whitefish	425	892	Scales		2	PIT	000000247555	
	0503	3	6793	Mountain whitefish	370	624	Scales		0	PIT	000000091806	
	0503	3	6794	Mountain whitefish	351	516	Scales		0	PIT	000000109512	
	0503	3	6795	Mountain whitefish	86	6	Scales		0			
	0503	3	6796	Arctic grayling	270	294	Scales		2	0	PIT	000000086751
	0503	3	6797	Mountain whitefish	387	552	Scales		8	0	PIT	000000087151
	0503	3	6798	Mountain whitefish	275	248	Scales		0	0	PIT	000000078448
	0503	3	6799	Mountain whitefish	252	190	Scales		2	0	PIT	000000083964
	0503	3	6800	Mountain whitefish	364	524	Scales		0	0	PIT	000000073280
	0503	3	6801	Mountain whitefish	387	576	Scales		0	0	PIT	000000079740
	0503	3	6802	Longnose sucker	386	660			0			
	0503	3	6803	Mountain whitefish	355	586	Scales		0	0	PIT	000000109979
	0503	3	6804	Arctic grayling	195	84	Scales		1	0		
	0503	3	6805	Mountain whitefish	196	84	Scales		0			
	0503	3	6806	Mountain whitefish	200	90	Scales		0			
	0503	3	6807	Mountain whitefish	354	512	Scales		2	0	PIT	000000246236
	0503	3	6808	Mountain whitefish	301	328	Scales		0	0	PIT	000000077524
	0503	3	6809	Mountain whitefish	253	192	Scales		0	0	PIT	000000086723
	0503	3	6810	Mountain whitefish	200	80	Scales		0			
	0503	3	6811	Mountain whitefish	294	256	Scales		0	0	PIT	000000082552
	0503	3	6812	Mountain whitefish	418	824	Scales		10	0	PIT	000000093431
	0503	3	6813	Mountain whitefish	305	342	Scales		0	0	PIT	000000083778
	0503	3	6814	Mountain whitefish	392	638	Scales		2	0	PIT	4D00031120
	0503	3	6815	Mountain whitefish	385	586	Scales		2	0	PIT	000000246935
	0503	3	6816	Mountain whitefish	321	390	Scales		2	0	PIT	0A00751950
	0503	3	6817	Mountain whitefish	292	318	Scales		2	0	PIT	000000248082
	0503	3	6818	Mountain whitefish	293	308	Scales		4	0	PIT	000000091349
	0503	3	6819	Mountain whitefish	403	702	Scales		0	0	PIT	000000078468
	0503	3	6820	Mountain whitefish	255	214	Scales		0	0	PIT	000000092706
	0503	3	6821	Mountain whitefish	155	40	Scales		0			
	0503	3	6822	Mountain whitefish	201	90	Scales		0			
	0503	3	6823	Mountain whitefish	197	84	Scales		0			
	0503	3	6824	Mountain whitefish	399	742	Scales		0	0	PIT	000000083821
	0503	3	6825	Mountain whitefish	373	538	Scales		0	0	PIT	000000080128
	0503	3	6826	Bull trout	215	102	in Ray/Scale:		2	0		
	0503	3	6827	Mountain whitefish	413	906	Scales		0	0	PIT	000000087566
	0503	3	6828	Mountain whitefish	333	420	Scales		0	0	PIT	000000088402
	0503	3	6829	Mountain whitefish	88	6	Scales		0			
	0503	3	6830	Mountain whitefish	290	294	Scales		0	0	PIT	000000083976
	0503	3	6831	Mountain whitefish	373	596	Scales		0	0	PIT	000000091435
	0503	3	6832	Longnose sucker	409	982			0			
	0503	3	6833	Mountain whitefish	325	362	Scales		0	0	PIT	000000078105
	0503	3	6834	Mountain whitefish	434	938	Scales		0	0	PIT	000000084476
	0503	3	6835	Mountain whitefish	362	436	Scales		2	0	PIT	000000081821
	0503	3	6836	Mountain whitefish	167	54	Scales		0			
	0503	3	6837	Mountain whitefish	84	6	Scales		0			
	0503	3	6838	Mountain whitefish	305	278	Scales		0	0	PIT	000000093572
	0503	3	6839	Mountain whitefish	192	74	Scales		0			
	0503	3	6840	Mountain whitefish	286	274	Scales		0	0	PIT	000000088510
	0501	3	6841	Longnose sucker	354	580			0			
	0501	3	6842	Largescale sucker	500	1584			0			
	0501	3	6843	Longnose sucker	239	186			0			
	0501	3	6844	Longnose sucker	346	562			0			
	0501	3	6845	Mountain whitefish	282	244	Scales		0	0	PIT	000000073182
	0501	3	6846	Mountain whitefish	268	202	Scales		0	0	PIT	000000110624
	0501	3	6847	Mountain whitefish	363	552	Scales		0	0	PIT	000000110101
	0501	3	6848	Mountain whitefish	252	172	Scales		0	0	PIT	000000077121
	0501	3	6849	Mountain whitefish	352	512	Scales		0	0	PIT	000000077815
	0501	3	6850	Mountain whitefish	308	341	Scales		0	0	PIT	000000086461
	0501	3	6851	Mountain whitefish	257	220	Scales		0	0	PIT	000000073233
	0501	3	6852	Mountain whitefish	415	724	Scales		0	0	PIT	000000084582
	0501	3	6853	Mountain whitefish	446	1104	Scales		2	FLOY	13781	WHITE
	0501	3	6854	Mountain whitefish	328	400	Scales		0	PIT	000000084475	
	0501	3	6855	Mountain whitefish	233	146	Scales		0			

Appendix C Table C1. Biological characteristics data for sampled fish, 2008 Peace River Fish Community Indexing Program.

Area and Site Label	Session	FishID	Common Name	Fork Length (mm)	Weight (gm)	Age Structure	Age	Capture Code	Tag			
									Type	Number	Colour	
5	0501	3	6856	Mountain whitefish	307	376	Scales	0	PIT		000000080378	
	0501	3	6857	Mountain whitefish	368	614	Scales	0	PIT		000000088418	
	0501	3	6858	Mountain whitefish	305	360	Scales	0	PIT		000000073160	
	0501	3	6859	Mountain whitefish	300	314	Scales	0	PIT		000000080621	
	0501	3	6860	Mountain whitefish	303	330	Scales	2	PIT		000000077524	
	0501	3	6861	Mountain whitefish	405	850	Scales	2	PIT		0A00721255	
	0501	3	6862	Mountain whitefish	255	190	Scales	0	PIT		000000109978	
	0501	3	6863	Mountain whitefish	340	426	Scales	2	PIT		000000248018	
	0501	3	6864	Mountain whitefish	234	148	Scales	0				
	0501	3	6865	Mountain whitefish	391	556	Scales	2	PIT		000000087151	
	0501	3	6866	Mountain whitefish	296	314	Scales	0	PIT		000000073257	
	0501	3	6867	Mountain whitefish	294	306	Scales	0	PIT		000000086732	
	0501	3	6868	Mountain whitefish	343	474	Scales	0	PIT		000000077810	
	0501	3	6869	Mountain whitefish	420	816	Scales	2	FLOY		15008	WHITE
	0501	3	6870	Mountain whitefish	324	372	Scales	0	PIT		000000084410	
	0501	3	6871	Mountain whitefish	297	296	Scales	0	PIT		000000084146	
	0501	3	6872	Mountain whitefish	261	196	Scales	4	0	PIT	000000093789	
	0501	3	6873	Mountain whitefish	290	286	Scales	0	PIT		000000084718	
	0501	3	6874	Mountain whitefish	292	304	Scales	0	PIT		000000110228	
	0501	3	6875	Mountain whitefish	286	260	Scales	0	PIT		000000248260	
	0501	3	6876	Mountain whitefish	326	368	Scales	0	PIT		000000248159	
	0501	3	6877	Mountain whitefish	251	176	Scales	0	PIT		000000247639	
	0501	3	6878	Mountain whitefish	369	498	Scales	0	PIT		000000248070	
	0501	3	6879	Mountain whitefish	272	236	Scales	0	PIT		000000247800	
	0501	3	6880	Mountain whitefish	277	250	Scales	2	PIT		0A00721523	
	0501	3	6881	Mountain whitefish	164	52	Scales	1	0			
	0501	3	6882	Rainbow trout	142	36		0				
	0501	3	6883	Bull trout	317	332	Fin Ray	3	0	PIT	000000248137	
	0501	3	6884	Bull trout	330	370	Fin Ray	3	0	PIT	000000248187	
	0504	3	6885	Largescale sucker	447	1154		0				
	0504	3	6886	Longnose sucker	410	980		0				
	0504	3	6887	Longnose sucker	428	1042		0				
	0504	3	6888	Mountain whitefish	391	614	Scales	0	PIT		000000247822	
	0504	3	6889	Mountain whitefish	354	460	Scales	2	PIT		0A00712146	
	0504	3	6890	Mountain whitefish	325	374	Scales	2	PIT		0A00726542	
	0504	3	6891	Mountain whitefish	257	172	Scales	0	PIT		000000247498	
	0504	3	6892	Mountain whitefish	390	724	Scales	0	PIT		000000247320	
	0504	3	6893	Mountain whitefish	297	282	Scales	0	PIT		000000247911	
	0504	3	6894	Mountain whitefish	358	544	Scales	0	PIT		000000247777	
	0504	3	6895	Mountain whitefish	343	436	Scales	2	PIT		4D00024503	
	0504	3	6896	Mountain whitefish	387	574	Scales	0	PIT		000000248236	
	0504	3	6897	Mountain whitefish	278	236	Scales	2	PIT		000000087543	
	0504	3	6898	Mountain whitefish	309	304	Scales	5	0	PIT	000000084821	
	0504	3	6899	Mountain whitefish	365	542	Scales	2	PIT		000000246102	
	0504	3	6900	Mountain whitefish	339	430	Scales	2	PIT		000000248084	
	0504	3	6901	Mountain whitefish	369	526	Scales	0	PIT		000000073135	
	0504	3	6902	Mountain whitefish	334	390	Scales	0	PIT		000000080277	
	0504	3	6903	Mountain whitefish	307	316	Scales	4	0	PIT	000000083712	
	0504	3	6904	Mountain whitefish	294	326	Scales	5	0	PIT	000000092162	
	0504	3	6905	Mountain whitefish	291	260	Scales	0	PIT		000000247532	
	0504	3	6906	Mountain whitefish	200	82	Scales	2	0			
	0504	3	6907	Mountain whitefish	189	72	Scales	0				
	0504	3	6908	Mountain whitefish	217	104	Scales	0				
	0504	3	6909	Mountain whitefish	191	72	Scales	0				
	0504	3	6910	Mountain whitefish	159	42	Scales	0				
	0504	3	6911	Mountain whitefish	192	86	Scales	2	0			
	0504	3	6912	Mountain whitefish	204	84	Scales	0				
	0502	3	6913	Mountain whitefish	396	614	Scales	0	PIT		000000084923	
	0502	3	6914	Mountain whitefish	340	390	Scales	2	PIT		000000247429	
	0502	3	6915	Mountain whitefish	423	820	Scales	0	PIT		000000091070	
	0502	3	6916	Mountain whitefish	357	432	Scales	0	PIT		000000076419	
	0502	3	6917	Mountain whitefish	292	254	Scales	0	PIT		000000073101	
	0502	3	6918	Mountain whitefish	347	422	Scales	0	PIT		000000082645	
	0502	3	6919	Mountain whitefish	262	226	Scales	0	PIT		000000084509	

Appendix C Table C1. Biological characteristics data for sampled fish, 2008 Peace River Fish
Community Indexing Program.

Area and Site Label	Session	FishID	Common Name	Fork Length (mm)	Weight (gm)	Age Structure	Age	Capture Code	Tag		
									Type	Number	Colour
5	0502	3	6920	Mountain whitefish	270	210	Scales	0	PIT	:000000087128	
	0502	3	6921	Mountain whitefish	292	282	Scales	0	PIT	:000000088227	
	0502	3	6922	Mountain whitefish	290	302	Scales	0	PIT	:000000083856	
	0502	3	6923	Mountain whitefish	265	226	Scales	0	PIT	:000000081109	
	0502	3	6924	Mountain whitefish	309	324	Scales	0	PIT	:000000086992	
	0502	3	6925	Mountain whitefish	250	178	Scales	0	PIT	:000000088275	
	0502	3	6926	Mountain whitefish	292	288	Scales	0	PIT	:000000085764	
	0502	3	6927	Mountain whitefish	244	170	Scales	0			
	0502	3	6928	Mountain whitefish	265	192	Scales	2	PIT	:000000247408	
	0502	3	6929	Mountain whitefish	309	318	Scales	0	PIT	:000000087714	
	0502	3	6930	Mountain whitefish	330	426	Scales	0	PIT	:000000088231	
	0502	3	6931	Mountain whitefish	258	218	Scales	0	PIT	:000000087858	
	0502	3	6932	Mountain whitefish	220	108	Scales	0			
	0502	3	6933	Mountain whitefish	203	84	Scales	0			
	0502	3	6934	Mountain whitefish	198	72	Scales	0			
	0502	3	6935	Mountain whitefish	392	528	Scales	0	PIT	:000000084295	
	0502	3	6936	Mountain whitefish	150	40	Scales	0			
	0502	3	6937	Mountain whitefish	287	250	Scales	0	PIT	:000000110352	
	0502	3	6938	Mountain whitefish	390	580	Scales	2	PIT	:000000248236	
	0502	3	6939	Mountain whitefish	357	472	Scales	2	PIT	4D00015558	
	0502	3	6940	Mountain whitefish	267	200	Scales	0	PIT	:000000093747	
	0502	3	6941	Mountain whitefish	347		Scales	7	0	PIT	:000000087813
	0502	3	6942	Mountain whitefish	275	260	Scales	0	PIT	:000000088646	
	0502	3	6943	Mountain whitefish	271	226	Scales	0	PIT	:000000079448	
	0502	3	6944	Mountain whitefish	195	84	Scales	0			
	0502	3	6945	Mountain whitefish	197	82	Scales	0			
	0502	3	6946	Mountain whitefish	285	242	Scales	2	PIT	:000000092267	
	0502	3	6947	Mountain whitefish	260	196	Scales	0	PIT	:000000077373	
	0502	3	6948	Mountain whitefish	196	74	Scales	0			
	0502	3	6949	Mountain whitefish	358	546	Scales	2	PIT	:000000247777	
	0502	3	6950	Mountain whitefish	194	70	Scales	0			
	0502	3	6951	Mountain whitefish	187	68	Scales	0			
	0502	3	6952	Mountain whitefish	260	206	Scales	0	PIT	:000000093181	
	0502	3	6953	Mountain whitefish	209	84	Scales	0			
	0502	3	6954	Mountain whitefish	271	204	Scales	0	PIT	:000000077256	
	0502	3	6955	Mountain whitefish	280	264	Scales	0	PIT	:000000084148	
	0502	3	6956	Mountain whitefish	228	114	Scales	0			
	0502	3	6957	Mountain whitefish	227	136	Scales	3	0		
	0502	3	6958	Mountain whitefish	293	290	Scales	2	PIT	:000000078077	
	0502	3	6959	Mountain whitefish	353	414	Scales	2	PIT	0A00746854	
	0502	3	6960	Mountain whitefish	186	70	Scales	0			
	0502	3	6961	Mountain whitefish	205	90	Scales	2	0		
	0502	3	6962	Mountain whitefish	186	70	Scales	0			
	0502	3	6963	Mountain whitefish	147	30	Scales	0			
	0502	3	6964	Mountain whitefish	199	84	Scales	0			
	0502	3	6965	Mountain whitefish	286	318	Scales	0	PIT	:000000083683	
	0502	3	6966	Mountain whitefish	370	526	Scales	0	PIT	:000000088123	
	0502	3	6967	Mountain whitefish	139	28	Scales	0			
	0502	3	6968	Mountain whitefish	177	56	Scales	0			
	0502	3	6969	Mountain whitefish	153	38	Scales	0			
	0502	3	6970	Mountain whitefish	179	60	Scales	0			
	0502	3	6971	Mountain whitefish	198	84	Scales	2	0		
	0502	3	6972	Mountain whitefish	193	72	Scales	2	0		
	0502	3	6973	Mountain whitefish	182	60	Scales	0			
	0502	3	6974	Mountain whitefish	206	106	Scales	0			
	0502	3	6975	Mountain whitefish	167	50	Scales	0			
	0502	3	6976	Mountain whitefish	183	58	Scales	0			
	0502	3	6977	Mountain whitefish	202	86	Scales	0			
	0502	3	6978	Mountain whitefish	160	48	Scales	0			
	0502	3	6979	Mountain whitefish	210	104	Scales	0			
	0502	3	6980	Mountain whitefish	189	66	Scales	2	0		
	0505	3	6981	Longnose sucker	338	464		0			
	0505	3	6982	Longnose sucker	394	860		0			
	0505	3	6983	Mountain whitefish	390	700	Scales	6	0	PIT	:000000082166

Appendix C Table C1. Biological characteristics data for sampled fish, 2008 Peace River Fish Community Indexing Program.

Area and Site Label	Session	FishID	Common Name	Fork Length (mm)	Weight (gm)	Age Structure	Age	Capture Code	Tag Type	Tag Number	Tag Colour
5											
0505	3	6984	Longnose sucker	344	592			0			
0505	3	6985	Mountain whitefish	192	70	Scales		0			
0505	3	6986	Longnose sucker	339	674			0			
0505	3	6987	Northern pikeminnow	371	664			0			
0505	3	6988	Longnose sucker	246	164			0			
0505	3	6989	Longnose sucker	221	140			0			
0505	3	6990	Longnose sucker	261	240			0			
0505	3	6991	Longnose sucker	273	236			0			
0505	3	6992	Largescale sucker	259	196			0			
0505	3	6993	Mountain whitefish	264	226	Scales		0	PIT	000000083682	
0505	3	6994	Mountain whitefish	309	330	Scales		0	PIT	000000092902	
0505	3	6995	Bull trout	371	568	Fin Ray	4	0	PIT	000000084201	
0505	3	6996	Mountain whitefish	233	132	Scales		0			
0505	3	6997	Mountain whitefish	295	314	Scales		0	PIT	000000091202	
0505	3	6998	Northern pikeminnow	285	264			0			
0505	3	6999	Bull trout	360	468	Fin Ray	4	0	PIT	000000092286	
0505	3	7000	Mountain whitefish	284	236	Scales	3	0	PIT	000000110633	
0505	3	7001	Mountain whitefish	271	230	Scales		2	PIT	000000245626	
0505	3	7002	Longnose sucker	229	146			0			
0505	3	7003	Northern pikeminnow	248	178			0			
0505	3	7004	Mountain whitefish	196	74	Scales		0			
0505	3	7005	Longnose sucker	235	154			0			
0505	3	7006	Mountain whitefish	333	416	Scales		2	PIT	0A00717209	
0505	3	7007	Mountain whitefish	388	724	Scales		0	PIT	000000087585	
0505	3	7008	Longnose sucker	242	172			0			
0505	3	7009	Mountain whitefish	305	290	Scales		0	PIT	000000091305	
0505	3	7010	Mountain whitefish	194	80	Scales		0			
0505	3	7011	Mountain whitefish	330	430	Scales		2	PIT	000000088231	
0505	3	7012	Arctic grayling	278	284	Scales		0			
0505	3	7013	Mountain whitefish	324	376	Scales		0	PIT	000000083592	
0505	3	7014	Bull trout	217	110	Fin Ray/Scale	3	0			
0505	3	7015	Mountain whitefish	208	94	Scales		0			
0505	3	7016	Mountain whitefish	210	98	Scales		0			
0505	3	7017	Mountain whitefish	194	74	Scales		0			
0505	3	7018	Mountain whitefish	202	82	Scales		0			
0505	3	7019	Mountain whitefish	87	6	Scales		0			
0505	3	7020	Arctic grayling	359	556	Scales		2	PIT	000000092608	
0505	3	7021	Mountain whitefish	293	288	Scales		2	PIT	000000085764	
0505	3	7022	Mountain whitefish	262	184	Scales		0	PIT	000000078324	
0505	3	7023	Mountain whitefish	230	126	Scales		0			
0505	3	7024	Arctic grayling	188	82	Scales	1	0			
0505	3	7025	Mountain whitefish	312	368	Scales		0	PIT	000000086484	
0505	3	7026	Mountain whitefish	388	528	Scales		2	PIT	000000084295	
0505	3	7027	Mountain whitefish	275	202	Scales		0	PIT	000000086453	
0505	3	7028	Mountain whitefish	284	310	Scales		2	PIT	000000246560	
0505	3	7029	Mountain whitefish	203	82	Scales		0			
0505	3	7030	Mountain whitefish	183	64	Scales		0			
0505	3	7031	Mountain whitefish	97	8	Scales		0			
0505	3	7032	Mountain whitefish	292	282	Scales		0	PIT	000000093527	
0505	3	7033	Mountain whitefish	152	38	Scales		0			
0505	3	7034	Mountain whitefish	317	362	Scales		0	PIT	000000092733	
0505	3	7035	Arctic grayling	315	394	Scales		2	PIT	000000246764	
0505	3	7036	Arctic grayling	195	98	Scales	1	0			
0505	3	7037	Mountain whitefish	88	6	Scales		0			
0506	3	7038	Northern pike	512	926			0			
0506	3	7039	Rainbow trout	341	462			0			
0506	3	7040	Largescale sucker	303	314			0			
0506	3	7041	Longnose sucker	430	1020			0			
0506	3	7042	Longnose sucker	378	686			0			
0506	3	7043	Largescale sucker	467	1302			0			
0506	3	7044	Largescale sucker	387	690			0			
0506	3	7045	Longnose sucker	393	790			0			
0506	3	7046	Largescale sucker	395	608			0			
0506	3	7047	Longnose sucker	207	112			0			

Appendix C Table C1. Biological characteristics data for sampled fish, 2008 Peace River Fish Community Indexing Program.

Area and Site Label	Session	FishID	Common Name	Fork Length (mm)	Weight (gm)	Age Structure	Age	Capture Code	Tag		
									Type	Number	Colour
5											
0506	3	7048	Longnose sucker	367	458			0			
0506	3	7049	Longnose sucker	416	1022			0			
0506	3	7050	Longnose sucker	227	152			0			
0506	3	7051	Longnose sucker	380	700			0			
0506	3	7052	Longnose sucker	208	104			0			
0506	3	7053	Largescale sucker	555	2258			2	FLOY		616 YELLOW
0506	3	7054	Longnose sucker	265	234			0			
0506	3	7055	Longnose sucker	300	342			0			
0506	3	7056	Longnose sucker	240	198			0			
0506	3	7057	Longnose sucker	400	974			0			
0506	3	7058	Longnose sucker	371	698			0			
0506	3	7059	Longnose sucker	289	294			0			
0506	3	7060	Walleye	389	698			0			
0506	3	7061	Walleye	362	556			0			
0506	3	7062	Mountain whitefish	374	568	Scales	9	0	PIT		:000000090052
0506	3	7063	Mountain whitefish	280	240	Scales		0	PIT		:000000092411
0506	3	7064	Mountain whitefish	318	386	Scales		0	PIT		:000000077515
0506	3	7065	Arctic grayling	150	42	Scales	1	1			
0506	3	7066	Mountain whitefish	268	192	Scales		0	PIT		:000000091069
0506	3	7067	Arctic grayling	240	156	Scales	2	0			
0506	3	7068	Mountain whitefish	213	102	Scales		0			
0506	3	7069	Mountain whitefish	263	176	Scales		0	PIT		:000000090820
0506	3	7070	Mountain whitefish	335	396	Scales		0	PIT		:000000110475
0506	3	7071	Mountain whitefish	302	310	Scales		0	PIT		:000000078464
0506	3	7072	Mountain whitefish	205	86	Scales		0			
0506	3	7073	Mountain whitefish	197	80	Scales		0			
0506	3	7074	Mountain whitefish	269	202	Scales		0	PIT		:000000091425
0506	3	7075	Largescale sucker	195	92			0			
0506	3	7076	Mountain whitefish	192	74	Scales		0			
0506	3	7077	Mountain whitefish	180	58	Scales		0			
0506	3	7078	Mountain whitefish	201	76	Scales		0			
0506	3	7079	Mountain whitefish	142	28	Scales		0			
0506	3	7080	Kokanee	125	16			0			
0507	3	7081	Rainbow trout	434	864			0			
0507	3	7082	Walleye	387	826			0			
0507	3	7083	Mountain whitefish	395	662	Scales		2	PIT		:000000243776
0507	3	7084	Mountain whitefish	470	1272	Scales		0	PIT		:000000112229
0507	3	7085	Mountain whitefish	402	618	Scales	6	0	PIT		:000000093000
0507	3	7086	Mountain whitefish	336	430	Scales	3	0	PIT		:000000073158
0507	3	7087	Mountain whitefish	306	314	Scales		0	PIT		:000000110496
0507	3	7088	Mountain whitefish	340	492	Scales		0	PIT		:000000086255
0507	3	7089	Mountain whitefish	371	644	Scales		0	PIT		:000000087445
0507	3	7090	Mountain whitefish	346	492	Scales		0	PIT		:000000089489
0507	3	7091	Mountain whitefish	420	868	Scales		0	PIT		:000000089349
0507	3	7092	Mountain whitefish	361	608	Scales		0	PIT		:000000076562
0507	3	7093	Mountain whitefish	200	84	Scales		0			
0507	3	7094	Mountain whitefish	334	352	Scales		2	PIT		4D00026177
0507	3	7095	Mountain whitefish	253	180	Scales		0	PIT		:000000089785
0507	3	7096	Mountain whitefish	428	814	Scales		0	PIT		:000000093033
0507	3	7097	Mountain whitefish	381	632	Scales		0	PIT		:000000088093
0507	3	7098	Mountain whitefish	320	354	Scales		2	PIT		4D00013644
0507	3	7099	Mountain whitefish	352	434	Scales		2	PIT		:000000247665
0507	3	7100	Mountain whitefish	292	298	Scales		0	PIT		:000000092899
0507	3	7101	Mountain whitefish	337	374	Scales		0	PIT		:000000083139
0507	3	7102	Mountain whitefish	248	168	Scales		0			
0507	3	7103	Mountain whitefish	314	384	Scales		0	PIT		:000000092527
0507	3	7104	Mountain whitefish	326	328	Scales		2	PIT		4D00012948
0507	3	7105	Mountain whitefish	296	282	Scales		0	PIT		:000000073139
0507	3	7106	Mountain whitefish	286	264	Scales		0	PIT		:000000090734
0507	3	7107	Mountain whitefish	284	264	Scales		0	PIT		:000000076567
0507	3	7108	Mountain whitefish	268	224	Scales		0	PIT		:000000088127
0507	3	7109	Mountain whitefish	205	90	Scales		0			
0507	3	7110	Mountain whitefish	194	76	Scales		2	0		
0507	3	7111	Mountain whitefish	236	136	Scales		0			

Appendix C Table C1. Biological characteristics data for sampled fish, 2008 Peace River Fish Community Indexing Program.

Area and Site Label	Session	FishID	Common Name	Fork Length (mm)	Weight (gm)	Age Structure	Age	Capture Code	Tag		
									Type	Number	Colour
5	0507	3	7112	Mountain whitefish	165	48	Scales	0			
	0507	3	7113	Mountain whitefish	297	322	Scales	0	PIT	000000088877	
	0507	3	7114	Mountain whitefish	199	80	Scales	0			
	0507	3	7115	Mountain whitefish	270	200	Scales	0	PIT	000000073252	
	0507	3	7116	Mountain whitefish	283	240	Scales	0	PIT	000000076688	
	0507	3	7117	Mountain whitefish	182	62	Scales	0			
	0509	3	7118	Walleye	478	1360		0			
	0509	3	7119	Longnose sucker	396	858		0			
	0509	3	7120	Longnose sucker	376	672		0			
	0509	3	7121	Longnose sucker	402	854		0			
	0509	3	7122	Longnose sucker	341	516		0			
	0509	3	7123	Longnose sucker	391	824		0			
	0509	3	7124	Longnose sucker	239	152		0			
	0509	3	7125	Longnose sucker	404	870		0			
	0509	3	7126	Longnose sucker	406	826		0			
	0509	3	7127	Mountain whitefish	349	558	Scales	2	PIT	4D00033222	
	0509	3	7128	Mountain whitefish	366	576	Scales	0	PIT	000000088759	
	0509	3	7129	Mountain whitefish	398	622	Scales	0	PIT	000000085411	
	0509	3	7130	Mountain whitefish	303	336	Scales	2	PIT	000000085598	
	0509	3	7131	Mountain whitefish	360	484	Scales	0	PIT	000000076683	
	0509	3	7132	Mountain whitefish	337	378	Scales	5	0	PIT	000000093116
	0509	3	7133	Mountain whitefish	427	734	Scales	0	PIT	000000110328	
	0509	3	7134	Mountain whitefish	334	402	Scales	2	PIT	000000247019	
	0509	3	7135	Mountain whitefish	397	698	Scales	2	FLOY	15905	WHITE
	0509	3	7136	Mountain whitefish	386	676	Scales	2	FLOY	13865	WHITE
	0509	3	7137	Mountain whitefish	336	476	Scales	2	PIT	000000245396	
	0509	3	7138	Mountain whitefish	224	104	Scales	0			
	0509	3	7139	Mountain whitefish	350	478	Scales	0	PIT	000000086608	
	0509	3	7140	Mountain whitefish	319	342	Scales	0	PIT	000000087313	
	0509	3	7141	Mountain whitefish	208	90	Scales	0			
	0509	3	7142	Mountain whitefish	385	646	Scales	0	PIT	000000091457	
	0509	3	7143	Mountain whitefish	204	88	Scales	0			
	0509	3	7144	Mountain whitefish	260	200	Scales	3	0	PIT	000000092385
	0509	3	7145	Northern pikeminnow	244	152		0			
	0509	3	7146	Mountain whitefish	339	368	Scales	0	PIT	000000089139	
	0509	3	7147	Mountain whitefish	343	462	Scales	0	PIT	000000079170	
	0509	3	7148	Mountain whitefish	255	172	Scales	0	PIT	000000110504	
	0509	3	7149	Mountain whitefish	307	332	Scales	0	PIT	000000077818	
	0509	3	7150	Arctic grayling	157	46	Scales	1	0		
	0509	3	7151	Bull trout	220	98	Fin Ray/Scale:	2	0		
	0509	3	7152	Mountain whitefish	297	282	Scales	0	PIT	000000089643	
	0509	3	7153	Mountain whitefish	384	620	Scales	0	PIT	000000110500	
	0509	3	7154	Mountain whitefish	292	268	Scales	2	PIT	000000246441	
	0509	3	7155	Mountain whitefish	326	340	Scales	2	PIT	000000244547	
	0509	3	7156	Mountain whitefish	297	298	Scales	2	PIT	000000245409	
	0509	3	7157	Mountain whitefish	285	280	Scales	0	PIT	000000083781	
	0509	3	7158	Mountain whitefish	298	314	Scales	0	PIT	000000078430	
	0509	3	7159	Bull trout	209	200	Fin Ray	2	0		
	0509	3	7160	Mountain whitefish	207	98	Scales	0			
	0509	3	7161	Mountain whitefish	356	450	Scales	0	PIT	000000076544	
	0509	3	7162	Mountain whitefish	293	260	Scales	0	PIT	000000081717	
	0509	3	7163	Mountain whitefish	306	366	Scales	0	PIT	000000090029	
	0509	3	7164	Mountain whitefish	345	418	Scales	0	PIT	000000077962	
	0509	3	7165	Mountain whitefish	156	42	Scales	0			
	0509	3	7166	Mountain whitefish	272	222	Scales	0	PIT	000000077252	
	0509	3	7167	Mountain whitefish	340	416	Scales	2	PIT	000000247488	
	0509	3	7168	Mountain whitefish	277	244	Scales	0	PIT	000000091671	
	0509	3	7169	Mountain whitefish	292	272	Scales	2	PIT	000000080009	
	0509	3	7170	Mountain whitefish	247	150	Scales	0			
	0509	3	7171	Mountain whitefish	203	82	Scales	0			
	0509	3	7172	Mountain whitefish	205	86	Scales	0			
	0512	3	7173	Walleye	485	1594		0			
	0512	3	7174	Longnose sucker	421	1072		0			
	0512	3	7175	Longnose sucker	400	876		0			

Appendix C Table C1. Biological characteristics data for sampled fish, 2008 Peace River Fish
Community Indexing Program.

Area and Site Label	Session	FishID	Common Name	Fork Length (mm)	Weight (gm)	Age Structure	Age	Capture Code	Tag Type	Tag Number	Colour	
5												
		0512	3	7176	Longnose sucker	392	806					
		0512	3	7177	Longnose sucker	330	486					
		0512	3	7178	White sucker	384	838					
		0512	3	7179	Longnose sucker	382	658					
		0512	3	7180	Longnose sucker	410	1000					
		0512	3	7181	Longnose sucker	427	1040					
		0512	3	7182	Largescale sucker	470	1378					
		0512	3	7183	Bull trout	431	726	"in Ray/Scale: 4		PIT	:000000112104	
		0512	3	7184	Mountain whitefish	366	532	Scales	2	PIT	4D00027319	
		0512	3	7185	Mountain whitefish	311	328	Scales	0	PIT	:000000092714	
		0512	3	7186	Mountain whitefish	267	226	Scales	2	PIT	:000000248108	
		0512	3	7187	Mountain whitefish	396	698	Scales	0	PIT	:000000073123	
		0512	3	7188	Mountain whitefish	256	190	Scales	0	PIT	:000000091098	
		0512	3	7189	Mountain whitefish	259	182	Scales	0	PIT	:000000086753	
		0512	3	7190	Mountain whitefish	197	74	Scales	2	0		
		0512	3	7191	Mountain whitefish	197	80	Scales		0		
		0512	3	7192	Mountain whitefish	144	34	Scales		0		
		0512	3	7193	Mountain whitefish	184	64	Scales		0		
		0512	3	7194	Mountain whitefish	357	596	Scales	2	PIT	:000000109979	
		0512	3	7195	Mountain whitefish	355	490	Scales	2	PIT	:000000246709	
		0512	3	7196	Bull trout	202	80	"in Ray/Scale: 2		0		
		0512	3	7197	Mountain whitefish	407	710	Scales	0	PIT	:000000092992	
		0512	3	7198	Mountain whitefish	274	282	Scales	2	PIT	:000000082055	
		0512	3	7199	Mountain whitefish	340	372	Scales	2	FLOY	13980 WHITE	
		0512	3	7200	Mountain whitefish	295	272	Scales	4	0	PIT	:000000090947
		0512	3	7201	Mountain whitefish	284	246	Scales	5	0	PIT	:000000093579
		0512	3	7202	Mountain whitefish	191	78	Scales		0		
		0512	3	7203	Mountain whitefish	308	350	Scales	0	PIT	:000000082738	
		0512	3	7204	Mountain whitefish	167	54	Scales		0		
		0512	3	7205	Mountain whitefish	199	80	Scales		0		
		0512	3	7206	Mountain whitefish	198	82	Scales		0		
		0512	3	7207	Mountain whitefish	195	78	Scales		0		
		0512	3	7208	Mountain whitefish	205	90	Scales		0		
		0512	3	7209	Mountain whitefish	143	36	Scales		0		
		0512	3	7210	Mountain whitefish	280	242	Scales	6	0	PIT	:000000083952
		0512	3	7211	Mountain whitefish	206	86	Scales		0		
		0512	3	7212	Mountain whitefish	247	142	Scales		0		
		0512	3	7213	Mountain whitefish	206	94	Scales		0		
		0512	3	7214	Mountain whitefish	193	76	Scales		0		
		0512	3	7215	Mountain whitefish	148	36	Scales	1	0		
		0512	3	7216	Mountain whitefish	146	32	Scales		0		
		0512	3	7217	Mountain whitefish	211	96	Scales		0		
		0512	3	7218	Mountain whitefish	206	102	Scales		0		
		0512	3	7219	Mountain whitefish	142	32	Scales	1	0		
		0512	3	7220	Mountain whitefish	155	36	Scales		0		
		0510	3	7221	Longnose sucker	407	832			0		
		0510	3	7222	Longnose sucker	385	744			0		
		0510	3	7223	Longnose sucker	350	560			0		
		0510	3	7224	Rainbow trout	306	368			0		
		0510	3	7225	Mountain whitefish	284	278	Scales	0	PIT	:000000090703	
		0510	3	7226	Mountain whitefish	274	314	Scales	0	PIT	:000000109852	
		0510	3	7227	Mountain whitefish	327	414	Scales	0	PIT	:000000109500	
		0510	3	7228	Mountain whitefish	352	456	Scales	6	0	PIT	:000000090716
		0510	3	7229	Mountain whitefish	342	476	Scales	2	PIT	4D00027535	
		0510	3	7230	Mountain whitefish	273	236	Scales	0	PIT	:000000078314	
		0510	3	7231	Mountain whitefish	387	646	Scales	0	PIT	:000000089651	
		0510	3	7232	Mountain whitefish	306	352	Scales	0	PIT	:000000086462	
		0510	3	7233	Mountain whitefish	303	292	Scales	0	PIT	:000000086013	
		0510	3	7234	Mountain whitefish	377	592	Scales	0	PIT	:000000089908	
		0510	3	7235	Mountain whitefish	344	468	Scales	2	FLOY	13930 WHITE	
		0510	3	7236	Mountain whitefish	286	242	Scales	0	PIT	:000000084324	
		0510	3	7237	Mountain whitefish	294	288	Scales	2	PIT	:000000244196	
		0510	3	7238	Mountain whitefish	278	284	Scales	2	PIT	:000000082055	
		0510	3	7239	Kokanee	117	20			0		

Appendix C Table C1. Biological characteristics data for sampled fish, 2008 Peace River Fish Community Indexing Program.

Area and Site Label	Session	FishID	Common Name	Fork Length (mm)	Weight (gm)	Age Structure	Age	Capture Code	Tag			
									Type	Number	Colour	
5	0510	3	7240	Bull trout	324	328	Fin Ray	3	0	PIT	000000082554	
	0510	3	7241	Arctic grayling	255	196	Scales	2	0	PIT	000000077253	
	0510	3	7242	Mountain whitefish	287	244	Scales		0			
	0510	3	7243	Mountain whitefish	284	268	Scales		0	PIT	000000084203	
	0510	3	7244	Mountain whitefish	288	294	Scales		0	PIT	000000086762	
	0510	3	7245	Mountain whitefish	260	192	Scales		2	PIT	000000085879	
	0510	3	7246	Mountain whitefish	278	260	Scales		0	PIT	000000087815	
	0510	3	7247	Mountain whitefish	267	226	Scales	3	0	PIT	000000109633	
	0510	3	7248	Mountain whitefish	197	80	Scales		0			
	0510	3	7249	Mountain whitefish	375	618	Scales		2	PIT	000000091784	
	0510	3	7250	Mountain whitefish	289	300	Scales		0	PIT	000000092614	
	0510	3	7251	Mountain whitefish	260	218	Scales		0	PIT	000000087434	
	0510	3	7252	Mountain whitefish	355	400	Scales		2	PIT	4D00033723	
	0510	3	7253	Mountain whitefish	242	152	Scales		0			
	0510	3	7254	Mountain whitefish	253	168	Scales	3	0	PIT	000000082270	
	0510	3	7255	Mountain whitefish	268	210	Scales		0	PIT	000000091587	
	0510	3	7256	Mountain whitefish	300	316	Scales		0	PIT	000000104409	
	0510	3	7257	Mountain whitefish	298	302	Scales		0	PIT	000000073190	
	0510	3	7258	Mountain whitefish	228	132	Scales		0			
	0510	3	7259	Mountain whitefish	162	46	Scales		0			
	0510	3	7260	Mountain whitefish	189	70	Scales		0			
	0510	3	7261	Mountain whitefish	197	84	Scales		0			
	0510	3	7262	Mountain whitefish	196	88	Scales	2	0			
	0510	3	7263	Mountain whitefish	200	80	Scales		0			
	0510	3	7264	Mountain whitefish	181	58	Scales		0			
	0510	3	7265	Mountain whitefish	191	68	Scales		0			
	0510	3	7266	Mountain whitefish	187	74	Scales		0			
	0510	3	7267	Mountain whitefish	187	64	Scales		0			
	0510	3	7268	Mountain whitefish	194	70	Scales		0			
	0511	3	7269	Walleye	452	1112			0			
	0511	3	7270	Walleye	507	1494			0			
	0511	3	7271	Longnose sucker	358	570			0			
	0511	3	7272	Longnose sucker	396	862			0			
	0511	3	7273	Longnose sucker	427	1028			0			
	0511	3	7274	Longnose sucker	396	698			0			
	0511	3	7275	Mountain whitefish	437	848	Scales		2	FLOY	13939	WHITE
	0511	3	7276	Mountain whitefish	409	682	Scales		2	PIT	000000245629	
	0511	3	7277	Mountain whitefish	334	426	Scales	5	0	PIT	000000083953	
	0511	3	7278	Mountain whitefish	325	406	Scales		2	PIT	4D00036221	
	0511	3	7279	Mountain whitefish	282	232	Scales		0	PIT	000000084817	
	0511	3	7280	Mountain whitefish	263	210	Scales		0	PIT	000000078102	
	0511	3	7281	Mountain whitefish	278	244	Scales		0	PIT	000000078694	
	0511	3	7282	Mountain whitefish	307	350	Scales		0	PIT	000000093303	
	0511	3	7283	Mountain whitefish	272	210	Scales		0	PIT	000000073144	
	0511	3	7284	Mountain whitefish	247	150	Scales		0			
	0511	3	7285	Mountain whitefish	194	72	Scales		0			
	0511	3	7286	Mountain whitefish	189	76	Scales		0			
	0511	3	7287	Mountain whitefish	194	70	Scales		0			
	0511	3	7288	Mountain whitefish	173	50	Scales		0			
	0511	3	7289	Mountain whitefish	154	34	Scales		0			
	0511	3	7290	Mountain whitefish	191	74	Scales		0			
	0511	3	7291	Mountain whitefish	87	6	Scales	0	0			
	0511	3	7292	Mountain whitefish	196	74	Scales		0			
	0511	3	7293	Mountain whitefish	204	100	Scales	2	0			
	0511	3	7294	Mountain whitefish	207	76	Scales		0			
	0511	3	7295	Mountain whitefish	197	82	Scales		0			
	0511	3	7296	Mountain whitefish	211	98	Scales		0			
	0511	3	7297	Bull trout	203	90	Fin Ray/Scale	2	0			
	0511	3	7298	Mountain whitefish	239	162	Scales		0			
	0511	3	7299	Mountain whitefish	278	240	Scales		0	PIT	000000085632	
	0511	3	7300	Mountain whitefish	190	70	Scales		0			
	0515	3	7301	Longnose sucker	377	732			0			
	0515	3	7302	Longnose sucker	370	686			0			
	0515	3	7303	Arctic grayling	340	460	Scales	3	0	PIT	000000081938	

Appendix C Table C1. Biological characteristics data for sampled fish, 2008 Peace River Fish Community Indexing Program.

Area and Site Label	Session	FishID	Common Name	Fork Length (mm)	Weight (gm)	Age Structure	Age	Capture Code	Tag			
									Type	Number	Colour	
5	0515	3	7304	Mountain whitefish	412	734	Scales		0	PIT	:000000079450	
	0515	3	7305	Mountain whitefish	351	424	Scales		2	PIT	:000000245764	
	0515	3	7306	Walleye	452	1182			0			
	0515	3	7307	Mountain whitefish	357	450	Scales		2	PIT	:000000091547	
	0515	3	7308	Arctic grayling	320	438	Scales	2	0	PIT	:000000091310	
	0515	3	7309	Mountain whitefish	360	510	Scales		0	PIT	:000000112593	
	0515	3	7310	Mountain whitefish	296	318	Scales		0	PIT	:000000084385	
	0515	3	7311	Mountain whitefish	405	752	Scales		2	PIT	:000000091072	
	0515	3	7312	Mountain whitefish	277	238	Scales		0	PIT	:000000109848	
	0515	3	7313	Mountain whitefish	300	286	Scales		0	PIT	:000000086497	
	0515	3	7314	Mountain whitefish	333	440	Scales		0	PIT	:000000073054	
	0515	3	7315	Mountain whitefish	423	838	Scales		2	FLOY	14950	WHITE
	0515	3	7316	Mountain whitefish	219	112	Scales		0			
	0515	3	7317	Mountain whitefish	291	260	Scales		0	PIT	:000000092173	
	0515	3	7318	Mountain whitefish	327	378	Scales		0	PIT	:000000073149	
	0515	3	7319	Arctic grayling	214	116	Scales	1	0			
	0515	3	7320	Mountain whitefish	277	282	Scales		0	PIT	:000000093883	
	0515	3	7321	Mountain whitefish	255	168	Scales		0	PIT	:000000090583	
	0515	3	7322	Mountain whitefish	262	194	Scales		0	PIT	:000000085359	
	0515	3	7323	Mountain whitefish	198	76	Scales		0			
	0515	3	7324	Arctic grayling	240	158	Scales	2	0			
	0515	3	7325	Mountain whitefish	359	514	Scales		0	PIT	:000000077261	
	0515	3	7326	Mountain whitefish	279	224	Scales		0	PIT	:000000073239	
	0515	3	7327	Largescale sucker	379	666			0			
	0515	3	7328	Bull trout	422	698	Fin Ray	4	0	PIT	:000000090332	
	0515	3	7329	Mountain whitefish	380	590	Scales		2	PIT	:000000246493	
	0515	3	7330	Mountain whitefish	410	702	Scales	6	0	PIT	:000000091315	
	0515	3	7331	Mountain whitefish	316	340	Scales		0	PIT	:000000073094	
	0515	3	7332	Mountain whitefish	324	368	Scales		2	PIT	:000000243422	
	0515	3	7333	Mountain whitefish	200	80	Scales		0			
	0515	3	7334	Mountain whitefish	342	432	Scales	6	0	PIT	:000000081836	
	0515	3	7335	Mountain whitefish	192	70	Scales	2	0			
	0515	3	7336	Mountain whitefish	300	296	Scales		0	PIT	:000000083806	
	0515	3	7337	Mountain whitefish	212	98	Scales		0			
	0515	3	7338	Mountain whitefish	387	608	Scales		0	PIT	:000000085046	
	0515	3	7339	Mountain whitefish	351	558	Scales		2	PIT	:000000247347	
	0515	3	7340	Mountain whitefish	247	182	Scales		0			
	0515	3	7341	Mountain whitefish	300	314	Scales		0	PIT	:000000110911	
	0515	3	7342	Mountain whitefish	203	84	Scales		0			
	0515	3	7343	Mountain whitefish	198	80	Scales		0			
	0515	3	7344	Mountain whitefish	204	86	Scales		0			
	0513	3	7345	Northern pike	722	2670			0			
	0513	3	7346	Mountain whitefish	444	1008	Scales		0	PIT	:000000092285	
	0513	3	7347	Mountain whitefish	353	460	Scales		0	PIT	:000000089754	
	0513	3	7348	Mountain whitefish	403	742	Scales		0	PIT	:000000086766	
	0513	3	7349	Mountain whitefish	357	468	Scales		0	PIT	:000000087699	
	0513	3	7350	Mountain whitefish	445	1034	Scales		0	PIT	:000000088271	
	0513	3	7351	Mountain whitefish	395	668	Scales		0	PIT	:000000080276	
	0513	3	7352	Longnose sucker	477	1474			0			
	0513	3	7353	Mountain whitefish	358	490	Scales		0	PIT	:000000087170	
	0513	3	7354	Mountain whitefish	284	274	Scales	5	0	PIT	:000000089372	
	0513	3	7355	Mountain whitefish	387	576	Scales		0	PIT	:000000093717	
	0513	3	7356	Mountain whitefish	313	364	Scales		0	PIT	:000000086478	
	0513	3	7357	Mountain whitefish	316	354	Scales		2	PIT	:000000246011	
	0513	3	7358	Mountain whitefish	332	412	Scales		0	PIT	:000000110505	
	0513	3	7359	Mountain whitefish	321	388	Scales		0	PIT	:000000087719	
	0513	3	7360	Bull trout	327	420	Fin Ray/Scale:	4	0	PIT	:000000073200	
	0513	3	7361	Mountain whitefish	327	414	Scales		0	PIT	:000000111024	
	0513	3	7362	Mountain whitefish	344	456	Scales		0	PIT	:000000093816	
	0513	3	7363	Mountain whitefish	341	434	Scales		2	PIT	:000000245597	
	0513	3	7364	Mountain whitefish	315	404	Scales		0	PIT	:000000080148	
	0513	3	7365	Mountain whitefish	371	562	Scales		2	PIT	0A00721309	
	0513	3	7366	Mountain whitefish	352	516	Scales		0	PIT	:000000086763	
	0513	3	7367	Mountain whitefish	362	508	Scales		0	PIT	:000000085052	

Appendix C Table C1. Biological characteristics data for sampled fish, 2008 Peace River Fish Community Indexing Program.

Area and Site Label	Session	FishID	Common Name	Fork Length (mm)	Weight (gm)	Age Structure	Age	Capture Code	Tag			
									Type	Number	Colour	
5	0513	3	7368	Mountain whitefish	320	376	Scales	5	0	PIT	000000089617	
	0513	3	7369	Mountain whitefish	377	626	Scales		2	PIT	000000247678	
	0513	3	7370	Mountain whitefish	311	350	Scales		0	PIT	000000079599	
	0513	3	7371	Mountain whitefish	145	30	Scales		0			
	0513	3	7372	Mountain whitefish	362	498	Scales		0	PIT	000000093117	
	0513	3	7373	Mountain whitefish	330	412	Scales		0	PIT	000000078905	
	0513	3	7374	Mountain whitefish	282	278	Scales		0	PIT	000000077775	
	0513	3	7375	Mountain whitefish	355	462	Scales		0	PIT	000000073134	
	0513	3	7376	Mountain whitefish	321	368	Scales		2	PIT	4D00025849	
	0513	3	7377	Mountain whitefish	268	220	Scales		0	PIT	000000088800	
	0513	3	7378	Mountain whitefish	310	294	Scales		0	PIT	000000086007	
	0513	3	7379	Mountain whitefish	201	78	Scales		0			
	0513	3	7380	Mountain whitefish	204	80	Scales		0			
	0513	3	7381	Mountain whitefish	410	656	Scales		2	PIT	0A00724176	
	0513	3	7382	Mountain whitefish	294	314	Scales		0	PIT	000000092638	
	0513	3	7383	Mountain whitefish	273	244	Scales		0	PIT	000000073179	
	0513	3	7384	Mountain whitefish	258	184	Scales		0	PIT	000000093432	
	0513	3	7385	Mountain whitefish	198	82	Scales	2	0			
	0513	3	7386	Mountain whitefish	227	132	Scales		0			
	0513	3	7387	Mountain whitefish	190	64	Scales		0			
	0513	3	7388	Mountain whitefish	148	30	Scales		0			
	0513	3	7389	Mountain whitefish	342	420	Scales		2	FLOY	16344	WHITE
	0513	3	7390	Mountain whitefish	358	492	Scales		0	PIT	000000088414	
	0513	3	7391	Mountain whitefish	322	364	Scales		0	PIT	000000088803	
	0513	3	7392	Mountain whitefish	264	206	Scales		0	PIT	000000093719	
	0513	3	7393	Mountain whitefish	285	236	Scales		0	PIT	000000082740	
	0513	3	7394	Mountain whitefish	282	250	Scales		0	PIT	000000085123	
	0513	3	7395	Mountain whitefish	318	368	Scales		0	PIT	000000088994	
	0513	3	7396	Mountain whitefish	265	206	Scales		0	PIT	000000084050	
	0514	3	7397	Longnose sucker	427	1046			0			
	0514	3	7398	Longnose sucker	397	820			0			
	0514	3	7399	Longnose sucker	247	200			0			
	0514	3	7400	Longnose sucker	486	1448			0			
	0514	3	7401	Longnose sucker	391	794			0			
	0514	3	7402	Longnose sucker	370	584			0			
	0514	3	7403	Longnose sucker	353	636			0			
	0514	3	7404	Longnose sucker	410	912			0			
	0514	3	7405	Longnose sucker	380	680			0			
	0514	3	7406	Longnose sucker	392	760			0			
	0514	3	7407	Mountain whitefish	458	1232	Scales		0	PIT	000000092307	
	0514	3	7408	Mountain whitefish	326	424	Scales		0	PIT	000000110339	
	0514	3	7409	Mountain whitefish	462	1146	Scales		2	PIT	000000110222	
	0514	3	7410	Mountain whitefish	354	406	Scales		2	FLOY	15864	WHITE
	0514	3	7411	Mountain whitefish	409	808	Scales		0	PIT	000000077684	
	0514	3	7412	Mountain whitefish	380	632	Scales		0	PIT	000000090707	
	0514	3	7413	Mountain whitefish	333	416	Scales		0	PIT	000000077521	
	0514	3	7414	Mountain whitefish	373	518	Scales		2	FLOY	14095	WHITE
	0514	3	7415	Mountain whitefish	347	456	Scales		0	PIT	000000092507	
	0514	3	7416	Mountain whitefish	389	656	Scales		3	PIT	4D00015127	
	0514	3	7417	Mountain whitefish	351	474	Scales		0	PIT	000000076693	
	0514	3	7418	Mountain whitefish	392	728	Scales		0	PIT	000000077499	
	0514	3	7419	Mountain whitefish	387	656	Scales		0	PIT	000000078217	
	0514	3	7420	Mountain whitefish	338	478	Scales		2	PIT	000000245677	
	0514	3	7421	Mountain whitefish	292	244	Scales	5	0	PIT	000000091467	
	0514	3	7422	Mountain whitefish	311	396	Scales		0	PIT	000000093022	
	0514	3	7423	Mountain whitefish	303	300	Scales		0	PIT	000000073246	
	0514	3	7424	Mountain whitefish	397	678	Scales		0	PIT	000000085483	
	0514	3	7425	Mountain whitefish	326	380	Scales		2	PIT	000000073149	
	0514	3	7426	Mountain whitefish	384	628	Scales		0	PIT	000000089929	
	0514	3	7427	Mountain whitefish	328	380	Scales	4	0	PIT	000000110091	
	0514	3	7428	Mountain whitefish	343	416	Scales		0	PIT	000000073242	
	0514	3	7429	Mountain whitefish	348	462	Scales		0	PIT	000000093673	
	0514	3	7430	Mountain whitefish	264	220	Scales		0	PIT	000000110095	
	0514	3	7431	Mountain whitefish	244	158	Scales		0			

Appendix C Table C1. Biological characteristics data for sampled fish, 2008 Peace River Fish
Community Indexing Program.

Area and Site Label	Session	FishID	Common Name	Fork Length (mm)	Weight (gm)	Age Structure	Age	Capture Code	Tag			
									Type	Number	Colour	
5												
		0514	3	7432	Mountain whitefish	193	74	Scales	2	0		
		0508	3	7433	Largescale sucker	501	1830			0		
		0508	3	7434	Longnose sucker	398	726			0		
		0508	3	7435	Largescale sucker	471	1464			0		
		0508	3	7436	Longnose sucker	446	1218			0		
		0508	3	7437	Longnose sucker	284	270			0		
		0508	3	7438	Mountain whitefish	392	744	Scales		0	PIT	:000000085283
		0508	3	7439	Mountain whitefish	411	774	Scales		0	PIT	:000000112354
		0508	3	7440	Longnose sucker	394	836			0		
		0508	3	7441	Longnose sucker	287	336			0		
		0508	3	7442	Mountain whitefish	379	572	Scales	2	FLOY	14991	WHITE
		0508	3	7443	Mountain whitefish	357	512	Scales	2	FLOY	14048	WHITE
		0508	3	7444	Mountain whitefish	354	382	Scales		0		
		0508	3	7445	Mountain whitefish	349	470	Scales		0	PIT	:000000084725
		0508	3	7446	Longnose sucker	409	976			0		
		0508	3	7447	Mountain whitefish	402	690	Scales	5	PIT	:000000087587	
		0508	3	7448	Mountain whitefish	361	452	Scales		0	PIT	:000000091824
		0508	3	7449	Mountain whitefish	437	706	Scales		0	PIT	:000000088679
		0508	3	7450	Mountain whitefish	324	358	Scales	2	FLOY	16553	WHITE
		0508	3	7451	Bull trout	496	1334	Fin Ray		0	PIT	:000000090612
		0508	3	7452	Mountain whitefish	276	276	Scales		0	PIT	:000000093428
		0508	3	7453	Mountain whitefish	274	230	Scales		0	PIT	:000000088795
		0508	3	7454	Mountain whitefish	278	308	Scales		0	PIT	:000000110482
		0508	3	7455	Mountain whitefish	282	246	Scales		0	PIT	:000000073163
		0508	3	7456	Bull trout	228	104	in Ray/Scale:		0		
		0508	3	7457	Mountain whitefish	375	606	Scales	2	FLOY	14107	WHITE
		0508	3	7458	Mountain whitefish	343	406	Scales	2	PIT	0A00710162	
		0508	3	7459	Longnose sucker	287	394			0		
		0508	3	7460	Mountain whitefish	304	330	Scales		0	PIT	:000000112113
		0508	3	7461	Mountain whitefish	348	492	Scales	2	FLOY	14046	WHITE
		0508	3	7462	Mountain whitefish	304	284	Scales		0	PIT	:000000089767
		0508	3	7463	Mountain whitefish	297	302	Scales	2	PIT	:000000244810	
		0508	3	7464	Mountain whitefish	384	662	Scales		0	PIT	:000000080993
		0508	3	7465	Mountain whitefish	287	298	Scales		0	PIT	:000000084388
		0508	3	7466	Longnose sucker	362	666			0		
		0508	3	7467	Longnose sucker	308	420			0		
		0508	3	7468	Bull trout	208	82	in Ray/Scale:	2	0		
		0508	3	7469	Mountain whitefish	375	606	Scales		0	PIT	:000000093278
		0508	3	7470	Arctic grayling	295	324	Scales	2	PIT	:000000083943	
		0508	3	7471	Mountain whitefish	303	306	Scales		0	PIT	:000000112965
		0508	3	7472	Mountain whitefish	274	278	Scales		0	PIT	:000000073108
		0508	3	7473	Longnose sucker	223	142			0		
		0508	3	7474	Longnose sucker	217	122			0		
		0508	3	7475	Mountain whitefish	188	76	Scales		0		
		0508	3	7476	Mountain whitefish	184	72	Scales		0		
		0508	3	7477	Mountain whitefish	260	202	Scales		0		
		0508	3	7478	Mountain whitefish	193	80	Scales		0		
		0508	3	7479	Mountain whitefish	180	64	Scales		0		
		0508	3	7480	Mountain whitefish	161	42	Scales		0		
		0508	3	7481	Mountain whitefish	162	36	Scales		0		
		0508	3	7482	Mountain whitefish	188	66	Scales		0		
		0508	3	7483	Longnose sucker	147	38			0		
		0508	3	7484	Mountain whitefish	141	28	Scales		0		
		0508	3	7485	Bull trout	197	80	in Ray/Scale:	2	0		
		0508	3	7486	Mountain whitefish	144	34	Scales		0		
		0508	3	7487	Mountain whitefish	104	8	Scales		0		
		0508	3	7488	Mountain whitefish	267	214	Scales		0	PIT	:000000082358
		0508	3	7489	Mountain whitefish	280	268	Scales		0	PIT	:000000087416
		0508	3	7490	Mountain whitefish	316	348	Scales		0	PIT	:000000090185
		0508	3	7491	Mountain whitefish	186	74	Scales		0		
		0508	3	7492	Mountain whitefish	208	84	Scales		0		
		0508	3	7493	Mountain whitefish	105	12	Scales		0		
		0508	3	7494	Mountain whitefish	221	94	Scales		0		
		0508	3	7495	Mountain whitefish	152	36	Scales		0		

Appendix C Table C1. Biological characteristics data for sampled fish, 2008 Peace River Fish Community Indexing Program.

Area and Site Label	Session	FishID	Common Name	Fork Length (mm)	Weight (gm)	Age Structure	Age	Capture Code	Tag Type	Tag Number	Colour
5	0508	3	7496	Mountain whitefish	177	56	Scales	0			
	0508	3	7497	Longnose sucker	245	172		0			
	0508	3	7498	Mountain whitefish	198	84	Scales	0			
	0508	3	7499	Mountain whitefish	181	60	Scales	0			
	0508	3	7500	Mountain whitefish	143	30	Scales	0			
	0508	3	7501	Mountain whitefish	272	240	Scales	0			
	0508	3	7502	Mountain whitefish	142	26	Scales	0			
	0508	3	7503	Longnose sucker	123	20		0			
	0508	3	7504	Mountain whitefish	86	8	Scales	0			
	0510	4	9180	Longnose sucker	366	732		0			
	0510	4	9181	Mountain whitefish	512	1526	Scales	11	5	PIT	:000000093458
	0510	4	9182	Mountain whitefish	349	500	Scales	5	0	PIT	:000000084830
	0510	4	9183	Mountain whitefish	330	352	Scales	0			
	0510	4	9184	Mountain whitefish	311	322	Scales	4	0	PIT	:000000081830
	0510	4	9185	Mountain whitefish	275	204	Scales	2	0	PIT	:0000000247161
	0510	4	9186	Mountain whitefish	188	70	Scales	0			
	0510	4	9187	Mountain whitefish	191	70	Scales	0			
	0510	4	9188	Mountain whitefish	203	92	Scales	0			
	0510	4	9189	Longnose sucker	331	468		0			
	0510	4	9190	Arctic grayling	219	126	Scales	1	0		
	0510	4	9191	Mountain whitefish	198	74	Scales	0			
	0510	4	9192	Mountain whitefish	292	266	Scales	0	0	PIT	:000000088521
	0510	4	9193	Mountain whitefish	295	284	Scales	0	0	PIT	:000000087154
	0510	4	9194	Mountain whitefish	258	176	Scales	0	0	PIT	:0000000111987
	0510	4	9195	Mountain whitefish	201	84	Scales	0			
	0510	4	9196	Mountain whitefish	198	74	Scales	0			
	0510	4	9197	Mountain whitefish	379	566	Scales	2	0	PIT	4D00025878
	0510	4	9198	Mountain whitefish	277	230	Scales	0	0	PIT	:000000080499
	0510	4	9199	Mountain whitefish	320	356	Scales	2	0	PIT	:0000000245290
	0510	4	9200	Mountain whitefish	273	206	Scales	0			
	0510	4	9201	Mountain whitefish	189	64	Scales	0			
	0510	4	9202	Mountain whitefish	423	862	Scales	2	0	PIT	:000000073092
	0510	4	9203	Mountain whitefish	266	246	Scales	3	0	PIT	:000000081233
	0510	4	9204	Arctic grayling	197	100	Scales	1	0		
	0510	4	9205	Mountain whitefish	252	170	Scales	2	0	PIT	:000000082270
	0510	4	9206	Longnose sucker	414	900		0			
	0510	4	9207	Mountain whitefish	294	260	Scales	0	0	PIT	:000000078199
	0510	4	9208	Mountain whitefish	306	328	Scales	0	0	PIT	:000000088542
	0510	4	9209	Mountain whitefish	335	436	Scales	2	0	PIT	4D00031010
	0510	4	9210	Mountain whitefish	262	184	Scales	2	0	PIT	:0000000248061
	0510	4	9211	Mountain whitefish	221	122	Scales	0			
	0510	4	9212	Mountain whitefish	365	572	Scales	0	0	PIT	:000000078942
	0510	4	9213	Mountain whitefish	384	630	Scales	2	0	PIT	:0000000245375
	0510	4	9214	Mountain whitefish	259	204	Scales	0	0	PIT	:000000082839
	0510	4	9215	Mountain whitefish	294	322	Scales	0	0	PIT	:000000085249
	0510	4	9216	Mountain whitefish	259	174	Scales	0	0	PIT	:000000089244
	0510	4	9217	Bull trout	445	794	Fin Ray	4	0	PIT	:000000093193
	0510	4	9218	Bull trout	389	620	Fin Ray	4	0	PIT	:000000084724
	0510	4	9219	Mountain whitefish	146	36	Scales	0			
	0503	4	9220	Mountain whitefish	293	284	Scales	0	0	PIT	:000000086477
	0503	4	9221	Arctic grayling	385	604	Scales	2	0	PIT	:000000080978
	0503	4	9222	Mountain whitefish	191	72	Scales	2	0		
	0503	4	9223	Largescale sucker	512	1884		0			
	0503	4	9224	Longnose sucker	406	1040		0			
	0503	4	9225	Longnose sucker	444	1258		0			
	0503	4	9226	Longnose sucker	365	674		0			
	0503	4	9227	Mountain whitefish	361	454	Scales	7	0	PIT	:000000078237
	0503	4	9228	Mountain whitefish	282	264	Scales	0	0	PIT	:0000000110479
	0503	4	9229	Mountain whitefish	181	54	Scales	0			
	0503	4	9230	Mountain whitefish	162	50	Scales	0			
	0503	4	9231	Mountain whitefish	319	406	Scales	0	0	PIT	:000000088408
	0503	4	9232	Mountain whitefish	264	216	Scales	0	0	PIT	:000000085285
	0503	4	9233	Mountain whitefish	208	96	Scales	0			
	0503	4	9234	Mountain whitefish	205	92	Scales	0			

Capture Codes: 0 release; 1 mortality; 2 recapture; 3 recapture mortality; 4 recapture 2006 (no tag); 5 recapture before 06 (no tag); 9 intentional sacrifice.

Appendix C Table C1. Biological characteristics data for sampled fish, 2008 Peace River Fish Community Indexing Program.

Area and Site Label	Session	FishID	Common Name	Fork Length (mm)	Weight (gm)	Age Structure	Age	Capture Code	Tag		
									Type	Number	Colour
5	0503	4	9235	Mountain whitefish	154	36	Scales	0			
	0503	4	9236	Mountain whitefish	262	186	Scales	2	PIT	000000089621	
	0503	4	9237	Mountain whitefish	158	44	Scales	0			
	0503	4	9238	Mountain whitefish	359	532	Scales	0	PIT	000000092528	
	0503	4	9239	Mountain whitefish	324	356	Scales	2	PIT	000000247494	
	0503	4	9240	Mountain whitefish	344	442	Scales	0	PIT	000000087289	
	0503	4	9241	Mountain whitefish	295	308	Scales	0	PIT	000000089793	
	0503	4	9242	Mountain whitefish	165	48	Scales	1	0		
	0503	4	9243	Mountain whitefish	154	30	Scales	0			
	0503	4	9244	Longnose sucker	202	118		0			
	0503	4	9245	Mountain whitefish	237	148	Scales	0			
	0503	4	9246	Mountain whitefish	252	166	Scales	0	PIT	000000082368	
	0503	4	9247	Mountain whitefish	286	260	Scales	0	PIT	000000079992	
	0503	4	9248	Mountain whitefish	204	92	Scales	0			
	0503	4	9249	Mountain whitefish	150	40	Scales	0			
	0503	4	9250	Mountain whitefish	192	88	Scales	0			
	0503	4	9251	Mountain whitefish	278	288	Scales	0	PIT	000000104504	
	0503	4	9252	Mountain whitefish	270	238	Scales	5	0	PIT	000000110331
	0503	4	9253	Mountain whitefish	300	350	Scales	0	PIT	000000091942	
	0503	4	9254	Mountain whitefish	355	482	Scales	0	PIT	000000078777	
	0503	4	9255	Mountain whitefish	200	84	Scales	2	0		
	0503	4	9256	Mountain whitefish	154	40	Scales	0			
	0503	4	9257	Mountain whitefish	211	94	Scales	0			
	0503	4	9258	Mountain whitefish	327	424	Scales	5	0	PIT	000000086116
	0503	4	9259	Mountain whitefish	298	330	Scales	0	PIT	000000091343	
	0503	4	9260	Mountain whitefish	155	46	Scales	0			
	0503	4	9261	Mountain whitefish	183	64	Scales	0			
	0503	4	9262	Mountain whitefish	197	84	Scales	0			
	0503	4	9263	Mountain whitefish	466	1184	Scales	0	PIT	000000091327	
	0503	4	9264	Mountain whitefish	439	1034	Scales	0	PIT	000000088537	
	0501	4	9265	Mountain whitefish	338	410	Scales	2	FLOY	9383	YELLOW
	0501	4	9266	Mountain whitefish	350	478	Scales	2	PIT	000000247993	
	0501	4	9267	Mountain whitefish	339	496	Scales	0	PIT	000000109499	
	0501	4	9268	Mountain whitefish	291	322	Scales	2	PIT	000000245017	
	0501	4	9269	Mountain whitefish	380	584	Scales	0	PIT	000000089907	
	0501	4	9270	Mountain whitefish	329	402	Scales	0	PIT	000000085413	
	0501	4	9271	Mountain whitefish	312	362	Scales	0	PIT	000000087570	
	0501	4	9272	Mountain whitefish	344	464	Scales	0	PIT	000000084417	
	0501	4	9273	Mountain whitefish	268	246	Scales	0	PIT	000000080496	
	0501	4	9274	Mountain whitefish	197	80	Scales	0			
	0501	4	9275	Mountain whitefish	287	304	Scales	0	PIT	000000092705	
	0501	4	9276	Mountain whitefish	287	278	Scales	0	PIT	000000088259	
	0501	4	9277	Mountain whitefish	295	262	Scales	2	PIT	000000244502	
	0501	4	9278	Mountain whitefish	326	394	Scales	0	PIT	000000090719	
	0501	4	9279	Arctic grayling	281	244	Scales	4	0	PIT	000000087297
	0501	4	9280	Mountain whitefish	265	236	Scales	0	PIT	000000091672	
	0501	4	9281	Mountain whitefish	346	456	Scales	2	PIT	000000238217	
	0501	4	9282	Mountain whitefish	352	476	Scales	0	PIT	000000092410	
	0501	4	9283	Mountain whitefish	352	546	Scales	2	FLOY	3470	YELLOW
	0501	4	9284	Mountain whitefish	105	10	Scales	0			
	0501	4	9285	Mountain whitefish	290	332	Scales	0	PIT	000000086367	
	0501	4	9286	Mountain whitefish	284	278	Scales	0	PIT	000000078112	
	0501	4	9287	Mountain whitefish	331	390	Scales	2	PIT	0A00710926	
	0501	4	9288	Mountain whitefish	295	284	Scales	0	PIT	000000110778	
	0501	4	9289	Bull trout	219	98	in Ray/Scale:	3	0		
	0501	4	9290	Mountain whitefish	242	142	Scales	0			
	0501	4	9291	Mountain whitefish	205	88	Scales	0			
	0501	4	9292	Mountain whitefish	214	104	Scales	0			
	0501	4	9293	Longnose sucker	458	1258		0			
	0501	4	9294	Mountain whitefish	332	428	Scales	0	PIT	000000088511	
	0501	4	9295	Mountain whitefish	351	504	Scales	2	PIT	000000088543	
	0501	4	9296	Mountain whitefish	254	172	Scales	0	PIT	000000073069	
	0501	4	9297	Mountain whitefish	262	220	Scales	0	PIT	000000086892	
	0501	4	9298	Mountain whitefish	255	180	Scales	2	PIT	000000109978	

Appendix C Table C1. Biological characteristics data for sampled fish, 2008 Peace River Fish Community Indexing Program.

Area and Site Label	Session	FishID	Common Name	Fork Length (mm)	Weight (gm)	Age Structure	Age	Capture Code	Tag		
									Type	Number	Colour
5											
0501	4	9299	Longnose sucker	348	592			0			
0501	4	9300	Mountain whitefish	340	502	Scales	6	0	PIT		000000078232
0501	4	9301	Mountain whitefish	289	278	Scales		0	PIT		000000110890
0501	4	9302	Mountain whitefish	308	338	Scales		0	PIT		000000086212
0501	4	9303	Mountain whitefish	425	754	Scales		0	PIT		000000110086
0501	4	9304	Mountain whitefish	289	250	Scales		0	PIT		000000083570
0501	4	9305	Mountain whitefish	369	578	Scales		0	PIT		000000083890
0501	4	9306	Mountain whitefish	313	314	Scales		0	PIT		000000079604
0501	4	9307	Mountain whitefish	212	96	Scales		0			
0501	4	9308	Mountain whitefish	98	8	Scales		0			
0501	4	9309	Mountain whitefish	305	376	Scales		0	PIT		000000091555
0501	4	9310	Mountain whitefish	285	298	Scales		0	PIT		000000089124
0501	4	9311	Mountain whitefish	500	1146	Scales		2	PIT		0A00727622
0504	4	9312	Mountain whitefish	290	290	Scales	4	0	PIT		000000076551
0504	4	9313	Mountain whitefish	323	322	Scales		0	PIT		000000077641
0504	4	9314	Mountain whitefish	372	494	Scales		0	PIT		000000089224
0504	4	9315	Mountain whitefish	187	68	Scales		0			
0504	4	9316	Mountain whitefish	180	78	Scales		0			
0504	4	9317	Mountain whitefish	161	58	Scales		0			
0504	4	9318	Mountain whitefish	280	236	Scales		2	PIT		000000087543
0504	4	9319	Mountain whitefish	271	230	Scales		0	PIT		000000087397
0504	4	9320	Mountain whitefish	246	172	Scales		0			
0504	4	9321	Mountain whitefish	324	372	Scales		0	PIT		000000076415
0504	4	9322	Mountain whitefish	359	494	Scales		0	PIT		000000087811
0504	4	9323	Mountain whitefish	281	288	Scales		0	PIT		000000084033
0504	4	9324	Mountain whitefish	194	70	Scales		0			
0504	4	9325	Mountain whitefish	148	36	Scales		0			
0504	4	9326	Mountain whitefish	183	58	Scales		0			
0504	4	9327	Mountain whitefish	155	40	Scales		0			
0504	4	9328	Mountain whitefish	425	724	Scales	7	2	PIT		000000245176
0504	4	9329	Mountain whitefish	344	420	Scales		0	PIT		000000090603
0504	4	9330	Mountain whitefish	305	306	Scales		0	PIT		000000073145
0504	4	9331	Mountain whitefish	239	162	Scales		0			
0504	4	9332	Mountain whitefish	287	278	Scales		0	PIT		000000077803
0504	4	9333	Mountain whitefish	262	174	Scales	3	0	PIT		000000084409
0504	4	9334	Mountain whitefish	328	378	Scales		0	PIT		000000080392
0504	4	9335	Mountain whitefish	238	152	Scales		0			
0504	4	9336	Mountain whitefish	380	708	Scales		0	PIT		000000083831
0504	4	9337	Mountain whitefish	300	312	Scales		0	PIT		000000088133
0504	4	9338	Mountain whitefish	271	226	Scales		0	PIT		000000088663
0504	4	9339	Mountain whitefish	243	168	Scales		0			
0504	4	9340	Mountain whitefish	294	294	Scales	4	0	PIT		000000093581
0504	4	9341	Mountain whitefish	281	236	Scales		0	PIT		000000091066
0504	4	9342	Mountain whitefish	259	194	Scales	3	0	PIT		000000078894
0504	4	9343	Mountain whitefish	352	420	Scales		2	PIT		4D00024503
0504	4	9344	Mountain whitefish	207	92	Scales		0			
0504	4	9345	Mountain whitefish	189	76	Scales		0			
0502	4	9346	Mountain whitefish	367	654	Scales	6	0	PIT		000000087814
0502	4	9347	Mountain whitefish	103	14	Scales		0			
0502	4	9348	Mountain whitefish	370	566	Scales		0	PIT		000000092713
0502	4	9349	Mountain whitefish	255	180	Scales		0	PIT		000000090483
0502	4	9350	Mountain whitefish	335	466	Scales		0	PIT		000000085376
0502	4	9351	Mountain whitefish	366	504	Scales		2	PIT		000000246202
0502	4	9352	Mountain whitefish	299	332	Scales		0	PIT		000000083591
0502	4	9353	Mountain whitefish	195	86	Scales		0			
0502	4	9354	Mountain whitefish	344	468	Scales		0	PIT		000000091580
0502	4	9355	Mountain whitefish	320	398	Scales		0	PIT		000000085296
0502	4	9356	Mountain whitefish	381	588	Scales		2	PIT		4D00032718
0502	4	9357	Mountain whitefish	303	332	Scales		0	PIT		000000093095
0502	4	9358	Mountain whitefish	374	536	Scales		2	FLOY		622 YELLOW
0502	4	9359	Mountain whitefish	337	446	Scales		0	PIT		000000086093
0502	4	9360	Mountain whitefish	321	386	Scales		0	PIT		000000079044
0502	4	9361	Mountain whitefish	316	364	Scales		0	PIT		000000092031
0502	4	9362	Mountain whitefish	255	182	Scales		0	PIT		000000110226

Appendix C Table C1. Biological characteristics data for sampled fish, 2008 Peace River Fish Community Indexing Program.

Area and Site Label	Session	FishID	Common Name	Fork Length (mm)	Weight (gm)	Age Structure	Age	Capture Code	Tag		
									Type	Number	Colour
5											
0502	4	9363	Mountain whitefish	316	422	Scales		0	PIT		:000000077101
0502	4	9364	Mountain whitefish	209	94	Scales		0			
0502	4	9365	Mountain whitefish	271	244	Scales		0	PIT		:000000078443
0502	4	9366	Mountain whitefish	196	84	Scales		0			
0502	4	9367	Mountain whitefish	375	524	Scales		2	PIT	4D00036058	
0502	4	9368	Mountain whitefish	378	604	Scales		0	PIT		:000000084796
0502	4	9369	Mountain whitefish	309	360	Scales		2	PIT		:000000245562
0502	4	9370	Mountain whitefish	331	410	Scales	6	0	PIT		:000000086002
0502	4	9371	Mountain whitefish	281	322	Scales		0			
0502	4	9372	Mountain whitefish	338	458	Scales		0	PIT		:000000092741
0502	4	9373	Mountain whitefish	214	118	Scales		0			
0502	4	9374	Mountain whitefish	201	86	Scales		0			
0502	4	9375	Mountain whitefish	161	44	Scales		0			
0502	4	9376	Mountain whitefish	340	536	Scales		0	PIT		:000000079357
0502	4	9377	Mountain whitefish	200	80	Scales		0			
0502	4	9378	Mountain whitefish	300	352	Scales		0	PIT		:000000110075
0502	4	9379	Mountain whitefish	202	84	Scales		0			
0502	4	9380	Mountain whitefish	248	196	Scales	3	0			
0502	4	9381	Mountain whitefish	295	302	Scales		0	PIT		:000000085766
0502	4	9382	Mountain whitefish	314	338	Scales		0	PIT		:000000092280
0502	4	9383	Mountain whitefish	322	368	Scales		0	PIT		:000000093206
0502	4	9384	Mountain whitefish	269	224	Scales		0	PIT		:000000081831
0502	4	9385	Mountain whitefish	317	382	Scales		0	PIT		:000000084381
0502	4	9386	Mountain whitefish	277	282	Scales		0	PIT		:000000091470
0502	4	9387	Mountain whitefish	284	244	Scales		2	PIT		:000000246725
0502	4	9388	Mountain whitefish	276	254	Scales		0	PIT		:000000088409
0502	4	9389	Bull trout	335	424	Fin Ray	4	0	PIT		:000000085734
0502	4	9390	Mountain whitefish	208	98	Scales	2	0			
0502	4	9391	Mountain whitefish	182	68	Scales		0			
0502	4	9392	Mountain whitefish	196	80	Scales		0			
0502	4	9393	Mountain whitefish	188	66	Scales		0			
0502	4	9394	Mountain whitefish	219	102	Scales		0			
0502	4	9395	Mountain whitefish	165	44	Scales		0			
0502	4	9396	Mountain whitefish	440	896	Scales		0	PIT		:000000077946
0502	4	9397	Mountain whitefish	366	578	Scales		2	PIT		:000000083890
0502	4	9398	Mountain whitefish	395	624	Scales		2	PIT	4D00031453	
0502	4	9399	Mountain whitefish	441	1206	Scales		2	PIT	4D00030628	
0502	4	9400	Mountain whitefish	329	362	Scales		0	PIT		:000000087717
0502	4	9401	Mountain whitefish	338	324	Scales		0	PIT		:000000080870
0502	4	9402	Northern pikeminnow	248	168			0			
0502	4	9403	Mountain whitefish	270	218	Scales		0	PIT		:000000090579
0502	4	9404	Mountain whitefish	219	116	Scales		0			
0502	4	9405	Mountain whitefish	212	100	Scales		0			
0502	4	9406	Mountain whitefish	191	70	Scales		0			
0502	4	9407	Mountain whitefish	202	80	Scales		0			
0502	4	9408	Mountain whitefish	148	36	Scales		0			
0502	4	9409	Mountain whitefish	233	168	Scales		0			
0502	4	9410	Mountain whitefish	299	308	Scales		0	PIT		:000000087271
0502	4	9411	Mountain whitefish	285	254	Scales		0	PIT		:000000109611
0502	4	9412	Mountain whitefish	325	468	Scales		0	PIT		:000000073250
0502	4	9413	Mountain whitefish	256	224	Scales		0	PIT		:000000087395
0502	4	9414	Mountain whitefish	291	288	Scales		0	PIT		:000000081234
0502	4	9415	Mountain whitefish	285	284	Scales		0	PIT		:000000084387
0502	4	9416	Mountain whitefish	211	94	Scales		0			
0502	4	9417	Mountain whitefish	270	230	Scales		0	PIT		:000000088674
0502	4	9418	Mountain whitefish	213	112	Scales		0			
0502	4	9419	Mountain whitefish	260	218	Scales		0	PIT		:000000091700
0502	4	9420	Mountain whitefish	360	514	Scales		0	PIT		:000000111740
0502	4	9421	Mountain whitefish	312	344	Scales		0	PIT		:000000078474
0505	4	9422	White sucker	373	780			0			
0505	4	9423	Longnose sucker	410	940			0			
0505	4	9424	Arctic grayling	268	276	Scales		2	PIT		:000000086751
0505	4	9425	Mountain whitefish	317	322	Scales		0	PIT		:000000082461
0505	4	9426	Mountain whitefish	334	390	Scales		0	PIT		:000000092838

Appendix C Table C1. Biological characteristics data for sampled fish, 2008 Peace River Fish
Community Indexing Program.

Area and Site Label	Session	FishID	Common Name	Fork Length (mm)	Weight (gm)	Age Structure	Age	Capture Code	Tag		
									Type	Number	Colour
5											
		0505	Mountain whitefish	281	222	Scales		0	PIT		000000088898
		0505	Mountain whitefish	286	248	Scales	4	0	PIT		000000089794
		0505	Mountain whitefish	189	64	Scales		0			
		0505	Mountain whitefish	188	58	Scales	2	0			
		0505	Mountain whitefish	353	508	Scales		2	PIT		000000246107
		0505	Bull trout	388	566	Fin Ray	5	0	PIT		000000093794
		0505	Mountain whitefish	325	398	Scales		0	PIT		000000086090
		0505	Mountain whitefish	281	232	Scales		0	PIT		000000091473
		0505	Mountain whitefish	218	106	Scales		0			
		0505	Mountain whitefish	196	78	Scales		0			
		0505	Mountain whitefish	161	40	Scales		0			
		0505	Longnose sucker	420	970			0			
		0505	Mountain whitefish	195	72	Scales		0			
		0505	Mountain whitefish	138	28	Scales		0			
		0505	Mountain whitefish	199	90	Scales		0			
		0505	Mountain whitefish	195	80	Scales		0			
		0505	Mountain whitefish	194	78	Scales		0			
		0505	Bull trout	468	1024			2	PIT		000000082163
		0505	Mountain whitefish	288	294	Scales		2	PIT		000000093581
		0505	Mountain whitefish	269	240	Scales		0	PIT		000000086373
		0505	Mountain whitefish	270	232	Scales	4	2	PIT		000000245932
		0505	Mountain whitefish	271	230	Scales		0	PIT		000000089931
		0505	Mountain whitefish	190	64	Scales		0			
		0505	Mountain whitefish	269	214	Scales		0	PIT		000000082356
		0505	Mountain whitefish	203	82	Scales		0			
		0505	Mountain whitefish	154	34	Scales		0			
		0505	Mountain whitefish	198	80	Scales		0			
		0505	Mountain whitefish	160	40	Scales		0			
		0505	Mountain whitefish	193	78	Scales		0			
		0505	Mountain whitefish	206	84	Scales		0			
		0505	Mountain whitefish	425	748	Scales		2	PIT		000000110086
		0505	Mountain whitefish	373	528	Scales		2	PIT		000000247998
		0505	Mountain whitefish	308	308	Scales	3	0	PIT		000000093010
		0505	Mountain whitefish	277	252	Scales		0	PIT		000000090580
		0505	Mountain whitefish	287	230	Scales		0	PIT		000000082259
		0505	Mountain whitefish	293	280	Scales		2	PIT		000000093527
		0505	Mountain whitefish	197	78	Scales		0			
		0505	Mountain whitefish	314	366	Scales		2	PIT		000000093206
		0505	Longnose sucker	255	236			0			
		0505	Mountain whitefish	87	8	Scales		0			
		0505	Mountain whitefish	195	74	Scales		0			
		0505	Longnose sucker	174	64			0			
		0506	Walleye	485	1490			0			
		0506	Walleye	413	926			0			
		0506	Walleye	536	1954			0			
		0506	White sucker	382	864			0			
		0506	Longnose sucker	254	212			0			
		0506	Longnose sucker	240	188			0			
		0506	Longnose sucker	385	692			0			
		0506	Longnose sucker	203	98			0			
		0506	Longnose sucker	421	1094			0			
		0506	Largescale sucker	266	244			0			
		0506	Longnose sucker	232	142			0			
		0506	Longnose sucker	215	120			0			
		0506	Mountain whitefish	189	70	Scales		0			
		0506	Longnose sucker	414	1078			0			
		0506	Longnose sucker	238	166			0			
		0506	Largescale sucker	270	256			0			
		0506	Longnose sucker	238	202			0			
		0506	Longnose sucker	228	152			0			
		0506	Longnose sucker	210	108			0			
		0506	Mountain whitefish	268	220	Scales		0			
		0506	Mountain whitefish	292	260	Scales		0			
		0506	Mountain whitefish	252	216	Scales		2	PIT		000000247835

Appendix C Table C1. Biological characteristics data for sampled fish, 2008 Peace River Fish Community Indexing Program.

Area and Site Label	Session	FishID	Common Name	Fork Length (mm)	Weight (gm)	Age Structure	Age	Capture Code	Tag		
									Type	Number	Colour
5	0512	4	9619	Longnose sucker	456	1054		0			
	0512	4	9620	Longnose sucker	435	946		0			
	0512	4	9621	Longnose sucker	382	742		0			
	0512	4	9622	Largescale sucker	467	1500		0			
	0512	4	9623	Longnose sucker	414	800		0			
	0512	4	9624	Longnose sucker	357	578		0			
	0512	4	9625	Longnose sucker	434	918		0			
	0512	4	9626	Longnose sucker	330	412		0			
	0512	4	9627	Longnose sucker	440	1116		0			
	0512	4	9628	Longnose sucker	402	906		0			
	0512	4	9629	Longnose sucker	402	842		0			
	0512	4	9630	Longnose sucker	419	956		0			
	0512	4	9631	Longnose sucker	382	776		0			
	0512	4	9632	Longnose sucker	405	804		0			
	0512	4	9633	Largescale sucker	371	596		0			
	0512	4	9634	White sucker	338	502		0			
	0512	4	9635	Arctic grayling	351	510	Scales	0	PIT		:000000080983
	0512	4	9636	Mountain whitefish	374	424	Scales	0	PIT		:000000089225
	0512	4	9637	Mountain whitefish	453	1084	Scales	2	PIT		:000000084894
	0512	4	9638	Mountain whitefish	361	490	Scales	0	PIT		:000000081598
	0512	4	9639	Mountain whitefish	372	498	Scales	0	PIT		:000000089476
	0512	4	9640	Mountain whitefish	360	590	Scales	2	FLOY	10470	YELLOW
	0512	4	9641	Mountain whitefish	276	202	Scales	0	PIT		:000000092532
	0512	4	9642	Mountain whitefish	250	172	Scales	0	PIT		:000000088242
	0512	4	9643	Mountain whitefish	292	280	Scales	2	PIT		:000000088992
	0512	4	9644	Mountain whitefish	260	172	Scales	0	PIT		:000000110341
	0512	4	9645	Mountain whitefish	313	296	Scales	2	PIT		:000000244291
	0512	4	9646	Mountain whitefish	225	108	Scales	0			
	0512	4	9647	Mountain whitefish	202	90	Scales	0			
	0512	4	9648	Mountain whitefish	194	70	Scales	2			
	0512	4	9649	Mountain whitefish	193	78	Scales	0			
	0512	4	9650	Mountain whitefish	370	512	Scales	0	PIT		:000000082460
	0512	4	9651	Mountain whitefish	315	314	Scales	2	PIT		:000000245315
	0512	4	9652	Mountain whitefish	196	76	Scales	0			
	0512	4	9653	Mountain whitefish	199	84	Scales	0			
	0512	4	9654	Mountain whitefish	213	98	Scales	0			
	0512	4	9655	Mountain whitefish	195	68	Scales	0			
	0512	4	9656	Mountain whitefish	317	388	Scales	0			
	0512	4	9657	Mountain whitefish	395	578	Scales	0	PIT		:000000077940
	0512	4	9658	Mountain whitefish	305	338	Scales	0	PIT		:000000092147
	0512	4	9659	Mountain whitefish	293	310	Scales	0	PIT		:000000084814
	0512	4	9660	Mountain whitefish	248	182	Scales	0			
	0512	4	9661	Mountain whitefish	270	220	Scales	0	PIT		:000000090867
	0512	4	9662	Mountain whitefish	399	616	Scales	10	PIT		:000000090737
	0512	4	9663	Mountain whitefish	289	260	Scales	0	PIT		:000000109983
	0512	4	9664	Mountain whitefish	211	92	Scales	0			
	0512	4	9665	Mountain whitefish	313	338	Scales	2	PIT	0A007	21522
	0512	4	9666	Mountain whitefish	243	144	Scales	0			
	0511	4	9667	Largescale sucker	479	1292		0			
	0511	4	9668	Walleye	525	1852		0			
	0511	4	9669	Walleye	455	1090		0			
	0511	4	9670	Walleye	427	960		0			
	0511	4	9671	Walleye	368	582		0			
	0511	4	9672	Longnose sucker	441	1150		0			
	0511	4	9673	Mountain whitefish	473	1118	Scales	0	PIT		:000000080262
	0511	4	9674	Mountain whitefish	281	244	Scales	0	PIT		:000000084290
	0511	4	9675	Mountain whitefish	341	412	Scales	0	PIT		:000000111986
	0511	4	9676	Mountain whitefish	334	396	Scales	2	PIT		:000000247019
	0511	4	9677	Mountain whitefish	269	210	Scales	0	PIT		:000000088549
	0511	4	9678	Mountain whitefish	256	206	Scales	0	PIT		:000000090735
	0511	4	9679	Mountain whitefish	242	158	Scales	0			
	0511	4	9680	Mountain whitefish	283	218	Scales	0	PIT		:000000078212
	0511	4	9681	Mountain whitefish	257	178	Scales	0	PIT		:000000112100
	0511	4	9682	Mountain whitefish	206	90	Scales	2			

Appendix C Table C1. Biological characteristics data for sampled fish, 2008 Peace River Fish Community Indexing Program.

Area and Site Label	Session	FishID	Common Name	Fork Length (mm)	Weight (gm)	Age Structure	Age	Capture Code	Tag			
									Type	Number	Colour	
5												
	0511	4	9683	Longnose sucker	370	724		0				
	0511	4	9684	Longnose sucker	240	158		0				
	0511	4	9685	Mountain whitefish	379	566	Scales	0	PIT	000000077257		
	0511	4	9686	Mountain whitefish	353	482	Scales	0	PIT	000000081837		
	0511	4	9687	Mountain whitefish	309	312	Scales	5	2	PIT	000000246986	
	0511	4	9688	Mountain whitefish	307	218	Scales	0	PIT	000000092508		
	0511	4	9689	Mountain whitefish	236	138	Scales	0				
	0511	4	9690	Longnose sucker	394	792		0				
	0511	4	9691	Mountain whitefish	323	370	Scales	0	PIT	000000092500		
	0511	4	9692	Mountain whitefish	422	662	Scales	2	PIT	0A00745170		
	0511	4	9693	Mountain whitefish	422	840	Scales	0	PIT	000000090972		
	0511	4	9694	Mountain whitefish	312	294	Scales	2	PIT	000000248211		
	0511	4	9695	Longnose sucker	220	124		0				
	0511	4	9696	Mountain whitefish	350	426	Scales	0	PIT	000000092293		
	0511	4	9697	Mountain whitefish	346	412	Scales	0	PIT	000000083211		
	0511	4	9698	Longnose sucker	368	678		0				
	0511	4	9699	Mountain whitefish	276	270	Scales	2	PIT	000000248017		
	0511	4	9700	Mountain whitefish	322	348	Scales	0	PIT	000000079172		
	0511	4	9701	Longnose sucker	222	146		0				
	0511	4	9702	Mountain whitefish	192	84	Scales	0				
	0511	4	9703	Mountain whitefish	191	76	Scales	0				
	0511	4	9704	Mountain whitefish	300	314	Scales	0	PIT	000000092922		
	0511	4	9705	Mountain whitefish	231	126	Scales	0				
	0515	4	9706	Walleye	436	970		0				
	0515	4	9707	Longnose sucker	375	716		0				
	0515	4	9708	Longnose sucker	400	944		0				
	0515	4	9709	Longnose sucker	439	1236		0				
	0515	4	9710	Longnose sucker	406	952		0				
	0515	4	9711	Longnose sucker	443	1242		0				
	0515	4	9712	Longnose sucker	437	1104		0				
	0515	4	9713	Longnose sucker	405	932		0				
	0515	4	9714	Longnose sucker	403	950		0				
	0515	4	9715	Longnose sucker	417	1046		0				
	0515	4	9716	Longnose sucker	370	718		0				
	0515	4	9717	Longnose sucker	401	892		0				
	0515	4	9718	White sucker	387	882		0				
	0515	4	9719	Longnose sucker	418	940		0				
	0515	4	9720	Longnose sucker	455	1112		0				
	0515	4	9721	Largescale sucker	497	1628		0				
	0515	4	9722	Longnose sucker	354	616		0				
	0515	4	9723	Longnose sucker	370	676		0				
	0515	4	9724	Longnose sucker	374	674		0				
	0515	4	9725	Longnose sucker	413	980		0				
	0515	4	9726	Longnose sucker	407	1060		0				
	0515	4	9727	Longnose sucker	414	1034		0				
	0515	4	9728	Longnose sucker	402	860		0				
	0515	4	9729	Longnose sucker	395	910		0				
	0515	4	9730	Largescale sucker	508	1790		0				
	0515	4	9731	White sucker	394	820		0				
	0515	4	9732	Mountain whitefish	321	384	Scales	0	PIT	000000079175		
	0515	4	9733	Mountain whitefish	342	474	Scales	6	2	PIT	000000238008	
	0515	4	9734	Mountain whitefish	323	356	Scales	0	PIT	000000086876		
	0515	4	9735	Mountain whitefish	261	214	Scales	0	PIT	000000086888		
	0515	4	9736	Mountain whitefish	419	922	Scales	0	PIT	000000081832		
	0515	4	9737	Mountain whitefish	280	250	Scales	0	PIT	000000093645		
	0515	4	9738	Mountain whitefish	367	516	Scales	0	PIT	000000078323		
	0515	4	9739	Mountain whitefish	275	226	Scales	0	PIT	000000088998		
	0515	4	9740	Mountain whitefish	201	84	Scales	0				
	0515	4	9741	Mountain whitefish	198	88	Scales	0				
	0515	4	9742	Mountain whitefish	315	370	Scales	0	PIT	000000089116		
	0515	4	9743	Mountain whitefish	347	484	Scales	0	PIT	000000077508		
	0515	4	9744	Mountain whitefish	320	334	Scales	2	PIT	000000239158		
	0515	4	9745	Arctic grayling	325	438	Scales	3	0	PIT	000000085015	
	0515	4	9746	Mountain whitefish	237	142	Scales	0				

Appendix C Table C1. Biological characteristics data for sampled fish, 2008 Peace River Fish Community Indexing Program.

Area and Site Label	Session	FishID	Common Name	Fork Length (mm)	Weight (gm)	Age Structure	Age	Capture Code	Tag		
									Type	Number	Colour
5	0508	4	9811	Northern pike	510			0			
	0508	4	9812	Mountain whitefish	360			0	PIT	000000084907	
	0508	4	9813	Longnose sucker	405			0			
	0508	4	9814	Longnose sucker	266			0			
	0508	4	9815	Longnose sucker	217			0			
	0508	4	9816	Mountain whitefish	438			0	PIT	000000092930	
	0508	4	9817	Mountain whitefish	440			2	FLOY	14055	WHITE
	0508	4	9818	Longnose sucker	250			0			
	0508	4	9819	Mountain whitefish	360			0	PIT	000000087002	
	0508	4	9820	Mountain whitefish	367			2	PIT	000000244848	
	0508	4	9821	Mountain whitefish	363			2	PIT	000000091104	
	0508	4	9822	Arctic grayling	168			1	0		
	0508	4	9823	Mountain whitefish	322			2	PIT	000000089015	
	0508	4	9824	Mountain whitefish	372			0	PIT	000000090839	
	0508	4	9825	Mountain whitefish	265			0	PIT	000000090308	
	0508	4	9826	Mountain whitefish	298			0	PIT	000000092997	
	0508	4	9827	Mountain whitefish	194			0			
	0508	4	9828	Arctic grayling	336			3	0	PIT	000000090704
	0508	4	9829	Longnose sucker	416			0			
	0508	4	9830	Mountain whitefish	317			0	PIT	000000085889	
	0508	4	9831	Mountain whitefish	276			2	PIT	000000073108	
	0508	4	9832	Mountain whitefish	340			0	PIT	000000089368	
	0508	4	9833	Longnose sucker	422			0			
	0508	4	9834	Mountain whitefish	292			0	PIT	000000104843	
	0508	4	9835	Longnose sucker	365			0			
	0508	4	9836	Longnose sucker	287			0			
	0508	4	9837	Longnose sucker	280			0			
	0508	4	9838	Longnose sucker	350			0			
	0508	4	9839	Largescale sucker	234			0			
	0508	4	9840	Longnose sucker	408			0			
	0508	4	9841	Longnose sucker	265			0			
	0508	4	9842	Longnose sucker	352			0			
	0508	4	9843	Mountain whitefish	332			0	PIT	000000087684	
	0508	4	9844	Mountain whitefish	312			0	PIT	000000080011	
	0508	4	9845	Mountain whitefish	318			0	PIT	000000093354	
	0508	4	9846	Mountain whitefish	168			2	0		
	0508	4	9847	Longnose sucker	420			0			
	0508	4	9848	Arctic grayling	226			1	0		
	0508	4	9849	Mountain whitefish	399			2	PIT	000000244794	
	0508	4	9850	Mountain whitefish	152			0			
	0508	4	9851	Mountain whitefish	183			2	0		
	0508	4	9852	Mountain whitefish	182			0			
	0508	4	9853	Mountain whitefish	155			0			
	0508	4	9854	Mountain whitefish	146			1	0		
	0508	4	9855	Mountain whitefish	377			2	FLOY	15870	WHITE
	0508	4	9856	Mountain whitefish	281			0	PIT	000000086616	
	0508	4	9857	Mountain whitefish	292			0	PIT	000000090316	
	0508	4	9858	Mountain whitefish	188			0			
	0508	4	9859	Mountain whitefish	189			0			
	0508	4	9860	Longnose sucker	253			0			
	0508	4	9861	Mountain whitefish	399			2	PIT	000000245288	
	0508	4	9862	Mountain whitefish	152			0			
	0508	4	9863	Mountain whitefish	237			0			
	0508	4	9864	Mountain whitefish	187			0			
	0508	4	9865	Longnose sucker	251			0			
	0508	4	9866	Longnose sucker	245			0			
	0508	4	9867	Longnose sucker	254			0			
	0508	4	9868	Mountain whitefish	348			0	PIT	000000078581	
	0508	4	9869	Mountain whitefish	258			4	0	PIT	000000084325
	0508	4	9870	Mountain whitefish	271			0	PIT	000000085869	
	0508	4	9871	Mountain whitefish	154			0			
	0508	4	9872	Mountain whitefish	186			0			
	0508	4	9873	Mountain whitefish	152			0			
	0508	4	9874	Longnose sucker	153			0			

Appendix C Table C1. Biological characteristics data for sampled fish, 2008 Peace River Fish Community Indexing Program.

Area and Site Label	Session	FishID	Common Name	Fork Length (mm)	Weight (gm)	Age Structure	Age	Capture Code	Type	Tag Number	Colour
5 Upper Control											
0504C	1	2120	Arctic grayling	198	82	Scales	1	0			
0504C	1	2121	Mountain whitefish	323	332	Scales		0			
0504C	1	2122	Mountain whitefish	388	492	Scales		2	FLOY	15041	WHITE
0504C	1	2123	Mountain whitefish	136	28	Scales		0			
0504C	1	2124	Mountain whitefish	101	8	Scales		0			

Appendix D
Catch Rates and Observed Fish

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**Appendix D Table D1 Standard boat electrofisher effort, catch, and catch-per-unit-effort, 2008
Peace River Fish Community Indexing Program.**

Area	Site	Habitat	Run	Date	Time	Effort (m) (s)	Species	Catch	Obs.	Number	CPUE (Fish/km)
Section 1											
	0101	SFN									
			1	21-Aug-08	12:30	614 256	Arctic grayling	0	0	0	0.00
							Bull trout	0	0	0	0.00
							Mountain whitefish	79		79	128.66
			2	28-Aug-08	12:45	614 268	Arctic grayling	1	0	1	1.63
							Bull trout	0	0	0	0.00
							Mountain whitefish	89		89	144.95
			3	04-Sep-08	11:45	614 243	Arctic grayling	0	0	0	0.00
							Bull trout	0	0	0	0.00
							Mountain whitefish	70		70	114.01
			4	09-Sep-08	12:30	614 215	Arctic grayling	0	0	0	0.00
							Bull trout	0	0	0	0.00
							Mountain whitefish	78		78	127.04
			5	15-Sep-08	10:00	614 231	Arctic grayling	0	1	1	1.63
							Bull trout	0	0	0	0.00
							Mountain whitefish	56		56	91.21
			6	18-Sep-08	10:00	614 231	Arctic grayling	0	0	0	0.00
							Bull trout	0	0	0	0.00
							Mountain whitefish	70		70	114.01
	0102	SFN									
			1	21-Aug-08	13:30	870 338	Arctic grayling	0	0	0	0.00
							Bull trout	0	0	0	0.00
							Mountain whitefish	103		103	118.39
			2	28-Aug-08	14:00	870 305	Arctic grayling	0	0	0	0.00
							Bull trout	0	0	0	0.00
							Mountain whitefish	55		55	63.22
			3	04-Sep-08	13:15	870 312	Arctic grayling	0	0	0	0.00
							Bull trout	0	0	0	0.00
							Mountain whitefish	37		37	42.53
			4	09-Sep-08	13:30	870 286	Arctic grayling	0	0	0	0.00
							Bull trout	0	0	0	0.00
							Mountain whitefish	51		51	58.62
			5	15-Sep-08	10:30	870 283	Arctic grayling	0	0	0	0.00
							Bull trout	0	0	0	0.00
							Mountain whitefish	39		39	44.83
			6	18-Sep-08	10:30	870 310	Arctic grayling	0	0	0	0.00
							Bull trout	0	0	0	0.00
							Mountain whitefish	50		50	57.47

**Appendix D Table D1 Standard boat electrofisher effort, catch, and catch-per-unit-effort, 2008
Peace River Fish Community Indexing Program.**

Area	Site	Habitat	Run	Date	Time	Effort (m)	Effort (s)	Species	Catch	Obs.	Number	CPUE (Fish/km)
Section 1												
	0103	SFC										
			1	21-Aug-08	10:30	1092	614	Arctic grayling	0	0	0	0.00
								Bull trout	1	0	1	0.92
								Mountain whitefish	56		56	51.28
			2	28-Aug-08	10:30	1092	570	Arctic grayling	0	0	0	0.00
								Bull trout	0	1	1	0.92
								Mountain whitefish	44		44	40.29
			3	04-Sep-08	9:30	1092	560	Arctic grayling	0	0	0	0.00
								Bull trout	0	3	3	2.75
								Mountain whitefish	34		34	31.14
			4	09-Sep-08	10:15	1092	543	Arctic grayling	0	0	0	0.00
								Bull trout	0	0	0	0.00
								Mountain whitefish	25		25	22.89
			5	15-Sep-08	9:00	1092	601	Arctic grayling	0	0	0	0.00
								Bull trout	1	0	1	0.92
								Mountain whitefish	37		37	33.88
			6	18-Sep-08	8:45	1092	541	Arctic grayling	0	0	0	0.00
								Bull trout	0	0	0	0.00
								Mountain whitefish	48		48	43.96
	0104	SFN										
			1	21-Aug-08	9:45	445	283	Arctic grayling	0	0	0	0.00
								Bull trout	0	0	0	0.00
								Mountain whitefish	47		47	105.62
			2	28-Aug-08	11:15	445	266	Arctic grayling	0	0	0	0.00
								Bull trout	0	0	0	0.00
								Mountain whitefish	25		25	56.18
			3	04-Sep-08	10:00	445	282	Arctic grayling	0	0	0	0.00
								Bull trout	0	0	0	0.00
								Mountain whitefish	22		22	49.44
			4	09-Sep-08	11:30	445	275	Arctic grayling	0	0	0	0.00
								Bull trout	0	0	0	0.00
								Mountain whitefish	18		18	40.45
			5	15-Sep-08	9:30	445	320	Arctic grayling	0	0	0	0.00
								Bull trout	0	0	0	0.00
								Mountain whitefish	53		53	119.10
			6	18-Sep-08	9:45	445	296	Arctic grayling	0	0	0	0.00
								Bull trout	0	1	1	2.25
								Mountain whitefish	30		30	67.42

**Appendix D Table D1 Standard boat electrofisher effort, catch, and catch-per-unit-effort, 2008
Peace River Fish Community Indexing Program.**

Area	Site	Habitat	Run	Date	Time	Effort (m) (s)	Species	Catch	Obs.	Number	CPUE (Fish/km)
Section 1											
	0105	SFC									
			1	21-Aug-08	11:30	1029 498	Arctic grayling	0	0	0	0.00
							Bull trout	0	0	0	0.00
							Mountain whitefish	39		39	37.90
			2	28-Aug-08	11:45	1029 462	Arctic grayling	0	0	0	0.00
							Bull trout	0	0	0	0.00
							Mountain whitefish	47		47	45.68
			3	04-Sep-08	11:00	1029 433	Arctic grayling	0	0	0	0.00
							Bull trout	2	4	6	5.83
							Mountain whitefish	33		33	32.07
			4	09-Sep-08	10:45	1029 465	Arctic grayling	0	0	0	0.00
							Bull trout	0	0	0	0.00
							Mountain whitefish	29		29	28.18
			5	15-Sep-08	9:15	1029 476	Arctic grayling	0	0	0	0.00
							Bull trout	1	1	2	1.94
							Mountain whitefish	44		44	42.76
			6	18-Sep-08	9:15	1029 448	Arctic grayling	0	0	0	0.00
							Bull trout	0	1	1	0.97
							Mountain whitefish	62		62	60.25
	0106	SFN									
			1	20-Aug-08	9:15	591 522	Arctic grayling	0	0	0	0.00
							Bull trout	0	0	0	0.00
							Mountain whitefish	7		7	11.84
			2	28-Aug-08	14:45	591 278	Arctic grayling	0	0	0	0.00
							Bull trout	1	0	1	1.69
							Mountain whitefish	12		12	20.30
			3	03-Sep-08	9:30	591 456	Arctic grayling	0	0	0	0.00
							Bull trout	0	1	1	1.69
							Mountain whitefish	6		6	10.15
			4	09-Sep-08	9:30	591 462	Arctic grayling	0	0	0	0.00
							Bull trout	0	0	0	0.00
							Mountain whitefish	7		7	11.84
			5	15-Sep-08	10:45	591 462	Arctic grayling	0	0	0	0.00
							Bull trout	2	0	2	3.38
							Mountain whitefish	10		10	16.92
			6	18-Sep-08	10:45	591 519	Arctic grayling	0	0	0	0.00
							Bull trout	0	1	1	1.69
							Mountain whitefish	10		10	16.92

**Appendix D Table D1 Standard boat electrofisher effort, catch, and catch-per-unit-effort, 2008
Peace River Fish Community Indexing Program.**

Area	Site	Habitat	Run	Date	Time	Effort (m)	Effort (s)	Species	Catch	Obs.	Number	CPUE (Fish/km)
Section 1												
	0107	SFC										
			1	20-Aug-08	9:30	551	322	Arctic grayling	0	0	0	0.00
								Bull trout	0	0	0	0.00
								Mountain whitefish	16		16	29.04
			2	28-Aug-08	10:00	551	342	Arctic grayling	0	0	0	0.00
								Bull trout	0	0	0	0.00
								Mountain whitefish	12		12	21.78
			3	03-Sep-08	10:15	551	289	Arctic grayling	0	0	0	0.00
								Bull trout	0	0	0	0.00
								Mountain whitefish	8		8	14.52
			4	09-Sep-08	14:15	551	423	Arctic grayling	0	0	0	0.00
								Bull trout	0	0	0	0.00
								Mountain whitefish	17		17	30.85
			5	15-Sep-08	11:00	551	333	Arctic grayling	0	0	0	0.00
								Bull trout	0	1	1	1.81
								Mountain whitefish	0		0	0.00
			6	18-Sep-08	11:15	551	390	Arctic grayling	0	0	0	0.00
								Bull trout	0	0	0	0.00
								Mountain whitefish	13		13	23.59
	0108	SFN										
			1	21-Aug-08	9:30	828	509	Arctic grayling	0	0	0	0.00
								Bull trout	0	0	0	0.00
								Mountain whitefish	5		5	6.04
			2	28-Aug-08	9:00	828	534	Arctic grayling	0	0	0	0.00
								Bull trout	0	0	0	0.00
								Mountain whitefish	49		49	59.18
			3	03-Sep-08	11:30	828	457	Arctic grayling	0	0	0	0.00
								Bull trout	0	1	1	1.21
								Mountain whitefish	58		58	70.05
			4	09-Sep-08	15:00	828	560	Arctic grayling	0	0	0	0.00
								Bull trout	0	0	0	0.00
								Mountain whitefish	25		25	30.19
			5	15-Sep-08	11:30	828	549	Arctic grayling	0	0	0	0.00
								Bull trout	2	0	2	2.42
								Mountain whitefish	42		42	50.72
			6	18-Sep-08	12:15	828	588	Arctic grayling	0	0	0	0.00
								Bull trout	1	0	1	1.21
								Mountain whitefish	42		42	50.72

**Appendix D Table D1 Standard boat electrofisher effort, catch, and catch-per-unit-effort, 2008
Peace River Fish Community Indexing Program.**

Area	Site	Habitat	Run	Date	Time	Effort (m) (s)	Species	Catch	Obs.	Number	CPUE (Fish/km)
Section 1											
	0109	SFN									
			1	20-Aug-08	15:30	958 456	Arctic grayling	0	0	0	0.00
							Bull trout	0	0	0	0.00
							Mountain whitefish	66		66	68.89
			2	29-Aug-08	9:45	958 466	Arctic grayling	0	0	0	0.00
							Bull trout	0	1	1	1.04
							Mountain whitefish	54		54	56.37
			3	04-Sep-08	14:15	958 479	Arctic grayling	0	2	2	2.09
							Bull trout	0	1	1	1.04
							Mountain whitefish	47		47	49.06
			4	10-Sep-08	9:30	958 517	Arctic grayling	0	0	0	0.00
							Bull trout	0	0	0	0.00
							Mountain whitefish	95		95	99.16
			5	15-Sep-08	11:45	958 477	Arctic grayling	0	0	0	0.00
							Bull trout	0	0	0	0.00
							Mountain whitefish	109		109	113.78
			6	18-Sep-08	12:45	958 494	Arctic grayling	0	0	0	0.00
							Bull trout	0	0	0	0.00
							Mountain whitefish	85		85	88.73
	0110	SFC									
			1	20-Aug-08	10:00	821 442	Arctic grayling	0	0	0	0.00
							Bull trout	1	0	1	1.22
							Mountain whitefish	25		25	30.45
			2	28-Aug-08	15:15	821 504	Arctic grayling	0	0	0	0.00
							Bull trout	0	0	0	0.00
							Mountain whitefish	37		37	45.07
			3	03-Sep-08	10:45	821 404	Arctic grayling	0	0	0	0.00
							Bull trout	0	0	0	0.00
							Mountain whitefish	30		30	36.54
			4	10-Sep-08	11:00	821 595	Arctic grayling	0	0	0	0.00
							Bull trout	0	0	0	0.00
							Mountain whitefish	25		25	30.45
			5	15-Sep-08	12:30	821 521	Arctic grayling	0	0	0	0.00
							Bull trout	1	0	1	1.22
							Mountain whitefish	46		46	56.03
			6	18-Sep-08	11:30	821 483	Arctic grayling	0	0	0	0.00
							Bull trout	1	0	1	1.22
							Mountain whitefish	34		34	41.41

**Appendix D Table D1 Standard boat electrofisher effort, catch, and catch-per-unit-effort, 2008
Peace River Fish Community Indexing Program.**

Area	Site	Habitat	Run	Date	Time	Effort (m)	Effort (s)	Species	Catch	Obs.	Number	CPUE (Fish/km)
Section 1												
	0111	SFC										
			1	20-Aug-08	10:45	968	625	Arctic grayling	0	0	0	0.00
								Bull trout	0	0	0	0.00
								Mountain whitefish	35		35	36.16
			2	29-Aug-08	10:45	968	680	Arctic grayling	0	0	0	0.00
								Bull trout	1	0	1	1.03
								Mountain whitefish	24		24	24.79
			3	03-Sep-08	13:00	968	483	Arctic grayling	0	0	0	0.00
								Bull trout	2	0	2	2.07
								Mountain whitefish	19		19	19.63
			4	10-Sep-08	12:00	968	647	Arctic grayling	0	0	0	0.00
								Bull trout	1	0	1	1.03
								Mountain whitefish	36		36	37.19
			5	15-Sep-08	13:00	968	629	Arctic grayling	0	0	0	0.00
								Bull trout	1	0	1	1.03
								Mountain whitefish	53		53	54.75
			6	18-Sep-08	13:00	968	629	Arctic grayling	0	0	0	0.00
								Bull trout	1	0	1	1.03
								Mountain whitefish	26		26	26.86
	0112	SFC										
			1	20-Aug-08	11:30	1050	498	Arctic grayling	0	0	0	0.00
								Bull trout	1	0	1	0.95
								Mountain whitefish	62		62	59.05
			2	29-Aug-08	11:15	1050	508	Arctic grayling	0	0	0	0.00
								Bull trout	0	0	0	0.00
								Mountain whitefish	39		39	37.14
			3	03-Sep-08	13:45	1050	483	Arctic grayling	0	0	0	0.00
								Bull trout	0	0	0	0.00
								Mountain whitefish	39		39	37.14
			4	10-Sep-08	13:00	1050	657	Arctic grayling	0	0	0	0.00
								Bull trout	0	0	0	0.00
								Mountain whitefish	38		38	36.19
			5	15-Sep-08	14:00	1050	601	Arctic grayling	0	0	0	0.00
								Bull trout	2	0	2	1.90
								Mountain whitefish	80		80	76.19
			6	18-Sep-08	14:15	1050	580	Arctic grayling	0	0	0	0.00
								Bull trout	1	0	1	0.95
								Mountain whitefish	53		53	50.48

**Appendix D Table D1 Standard boat electrofisher effort, catch, and catch-per-unit-effort, 2008
Peace River Fish Community Indexing Program.**

Area	Site	Habitat	Run	Date	Time	Effort (m) (s)	Species	Catch	Obs.	Number	CPUE (Fish/km)
Section 1											
	0113	SFC									
			1	20-Aug-08	13:45	727 324	Arctic grayling	0	0	0	0.00
							Bull trout	0	0	0	0.00
							Mountain whitefish	39		39	53.65
			2	29-Aug-08	12:00	727 359	Arctic grayling	0	0	0	0.00
							Bull trout	0	0	0	0.00
							Mountain whitefish	32		32	44.02
			3	04-Sep-08	15:00	727 359	Arctic grayling	0	0	0	0.00
							Bull trout	0	0	0	0.00
							Mountain whitefish	39		39	53.65
			4	10-Sep-08	13:45	727 351	Arctic grayling	0	0	0	0.00
							Bull trout	0	0	0	0.00
							Mountain whitefish	42		42	57.77
			5	15-Sep-08	13:30	727 359	Arctic grayling	0	0	0	0.00
							Bull trout	1	0	1	1.38
							Mountain whitefish	35		35	48.14
			6	18-Sep-08	13:30	727 366	Arctic grayling	0	0	0	0.00
							Bull trout	0	0	0	0.00
							Mountain whitefish	35		35	48.14
	0114	SFC									
			1	20-Aug-08	13:00	919 448	Arctic grayling	2	0	2	2.18
							Bull trout	0	0	0	0.00
							Mountain whitefish	28		28	30.47
			2	29-Aug-08	13:45	919 491	Arctic grayling	0	0	0	0.00
							Bull trout	0	0	0	0.00
							Mountain whitefish	34		34	37.00
			3	03-Sep-08	14:45	919 420	Arctic grayling	0	0	0	0.00
							Bull trout	0	0	0	0.00
							Mountain whitefish	44		44	47.88
			4	10-Sep-08	15:00	919 565	Arctic grayling	0	0	0	0.00
							Bull trout	0	0	0	0.00
							Mountain whitefish	41		41	44.61
			5	15-Sep-08	14:45	919 571	Arctic grayling	1	0	1	1.09
							Bull trout	1	3	4	4.35
							Mountain whitefish	67		67	72.91
			6	18-Sep-08	14:45	919 564	Arctic grayling	0	0	0	0.00
							Bull trout	0	1	1	1.09
							Mountain whitefish	40		40	43.53

**Appendix D Table D1 Standard boat electrofisher effort, catch, and catch-per-unit-effort, 2008
Peace River Fish Community Indexing Program.**

Area	Site	Habitat	Run	Date	Time	Effort (m) (s)		Species	Catch	Obs.	Number	CPUE (Fish/km)
Section 1												
	0116	SFN										
			1	20-Aug-08	14:30	955	394	Arctic grayling	0	0	0	0.00
								Bull trout	0	0	0	0.00
								Mountain whitefish	21		21	21.99
			2	29-Aug-08	12:45	955	444	Arctic grayling	0	0	0	0.00
								Bull trout	0	0	0	0.00
								Mountain whitefish	16		16	16.75
			3	03-Sep-08	14:15	955	421	Arctic grayling	0	0	0	0.00
								Bull trout	0	0	0	0.00
								Mountain whitefish	13		13	13.61
			4	10-Sep-08	14:30	955	429	Arctic grayling	0	0	0	0.00
								Bull trout	0	0	0	0.00
								Mountain whitefish	13		13	13.61
			5	15-Sep-08	13:45	955	387	Arctic grayling	0	0	0	0.00
								Bull trout	0	0	0	0.00
								Mountain whitefish	20		20	20.94
			6	18-Sep-08	13:45	955	437	Arctic grayling	0	0	0	0.00
								Bull trout	0	0	0	0.00
								Mountain whitefish	21		21	21.99

**Appendix D Table D1 Standard boat electrofisher effort, catch, and catch-per-unit-effort, 2008
Peace River Fish Community Indexing Program.**

Area	Site	Habitat	Run	Date	Time	Effort (m) (s)	Species	Catch	Obs.	Number	CPUE (Fish/km)
Section 3											
	0301	SFC									
			1	22-Aug-08	13:00	1808 883	Arctic grayling	11	1	12	6.64
							Bull trout	1	0	1	0.55
							Mountain whitefish	51		51	28.21
			2	30-Aug-08	10:15	1808 897	Arctic grayling	3	0	3	1.66
							Bull trout	1	0	1	0.55
							Mountain whitefish	45		45	24.89
			3	05-Sep-08	10:45	1808 902	Arctic grayling	1	2	3	1.66
							Bull trout	1	1	2	1.11
							Mountain whitefish	47		47	26.00
			4	11-Sep-08	11:00	1808 1003	Arctic grayling	0	0	0	0.00
							Bull trout	0	0	0	0.00
							Mountain whitefish	35		35	19.36
			5	16-Sep-08	9:45	1808 977	Arctic grayling	1	0	1	0.55
							Bull trout	0	0	0	0.00
							Mountain whitefish	57		57	31.53
			6	19-Sep-08	10:00	1808 982	Arctic grayling	0	1	1	0.55
							Bull trout	0	0	0	0.00
							Mountain whitefish	74		74	40.93
	0302	SFC									
			1	22-Aug-08	11:15	1840 760	Arctic grayling	2	1	3	1.63
							Bull trout	1	0	1	0.54
							Mountain whitefish	73		73	39.67
			2	30-Aug-08	11:00	1840 638	Arctic grayling	0	1	1	0.54
							Bull trout	1	0	1	0.54
							Mountain whitefish	63		63	34.24
			3	05-Sep-08	11:45	1840 634	Arctic grayling	0	0	0	0.00
							Bull trout	0	2	2	1.09
							Mountain whitefish	53		53	28.80
			4	11-Sep-08	9:30	1840 888	Arctic grayling	1	0	1	0.54
							Bull trout	0	0	0	0.00
							Mountain whitefish	106		106	57.61
			5	16-Sep-08	9:15	1840 868	Arctic grayling	0	1	1	0.54
							Bull trout	1	0	1	0.54
							Mountain whitefish	87		87	47.28
			6	19-Sep-08	9:30	1840 884	Arctic grayling	0	0	0	0.00
							Bull trout	3	0	3	1.63
							Mountain whitefish	65		65	35.33

**Appendix D Table D1 Standard boat electrofisher effort, catch, and catch-per-unit-effort, 2008
Peace River Fish Community Indexing Program.**

Area	Site	Habitat	Run	Date	Time	Effort (m) (s)	Species	Catch	Obs.	Number	CPUE (Fish/km)
Section 3											
	0303	SFC									
			1	22-Aug-08	14:00	1378 622	Arctic grayling	0	0	0	0.00
							Bull trout	2	0	2	1.45
							Mountain whitefish	52		52	37.74
			2	30-Aug-08	9:15	1378 734	Arctic grayling	0	0	0	0.00
							Bull trout	0	0	0	0.00
							Mountain whitefish	68		68	49.35
			3	05-Sep-08	9:45	1378 775	Arctic grayling	0	0	0	0.00
							Bull trout	0	1	1	0.73
							Mountain whitefish	54		54	39.19
			4	11-Sep-08	11:45	1378 729	Arctic grayling	1	1	2	1.45
							Bull trout	0	1	1	0.73
							Mountain whitefish	69		69	50.07
			5	16-Sep-08	10:15	1378 719	Arctic grayling	0	0	0	0.00
							Bull trout	2	0	2	1.45
							Mountain whitefish	61		61	44.27
			6	19-Sep-08	10:30	1378 772	Arctic grayling	5	1	6	4.35
							Bull trout	2	0	2	1.45
							Mountain whitefish	54		54	39.19
	0304	SFN									
			1	22-Aug-08	15:00	1407 701	Arctic grayling	3	0	3	2.13
							Bull trout	1	1	2	1.42
							Mountain whitefish	60		60	42.64
			2	30-Aug-08	12:15	1407 716	Arctic grayling	2	3	5	3.55
							Bull trout	0	1	1	0.71
							Mountain whitefish	65		65	46.20
			3	05-Sep-08	13:15	1407 710	Arctic grayling	0	3	3	2.13
							Bull trout	0	0	0	0.00
							Mountain whitefish	56		56	39.80
			4	11-Sep-08	13:00	1407 645	Arctic grayling	2	3	5	3.55
							Bull trout	1	0	1	0.71
							Mountain whitefish	32		32	22.74
			5	16-Sep-08	10:45	1407 722	Arctic grayling	1	0	1	0.71
							Bull trout	0	0	0	0.00
							Mountain whitefish	36		36	25.59
			6	19-Sep-08	11:15	1407 748	Arctic grayling	3	0	3	2.13
							Bull trout	1	0	1	0.71
							Mountain whitefish	34		34	24.16

**Appendix D Table D1 Standard boat electrofisher effort, catch, and catch-per-unit-effort, 2008
Peace River Fish Community Indexing Program.**

Area	Site	Habitat	Run	Date	Time	Effort (m) (s)		Species	Catch	Obs.	Number	CPUE (Fish/km)
Section 3												
	0305	SFN										
			1	22-Aug-08	16:00	1486	638	Arctic grayling	0	0	0	0.00
								Bull trout	1	0	1	0.67
								Mountain whitefish	50		50	33.65
			2	30-Aug-08	13:15	1486	681	Arctic grayling	0	0	0	0.00
								Bull trout	2	0	2	1.35
								Mountain whitefish	56		56	37.69
			3	05-Sep-08	14:15	1486	749	Arctic grayling	0	1	1	0.67
								Bull trout	3	1	4	2.69
								Mountain whitefish	86		86	57.87
			4	11-Sep-08	14:30	1486	847	Arctic grayling	2	0	2	1.35
								Bull trout	2	0	2	1.35
								Mountain whitefish	110		110	74.02
			5	16-Sep-08	11:30	1486	861	Arctic grayling	4	0	4	2.69
								Bull trout	3	0	3	2.02
								Mountain whitefish	156		156	104.98
			6	19-Sep-08	11:00	1486	884	Arctic grayling	0	0	0	0.00
								Bull trout	2	0	2	1.35
								Mountain whitefish	160		160	107.67
	0306	SFN										
			1	24-Aug-08	9:45	980	533	Arctic grayling	0	0	0	0.00
								Bull trout	1	2	3	3.06
								Mountain whitefish	39		39	39.80
			2	30-Aug-08	14:15	980	521	Arctic grayling	0	0	0	0.00
								Bull trout	1	0	1	1.02
								Mountain whitefish	16		16	16.33
			3	05-Sep-08	16:15	980	608	Arctic grayling	0	0	0	0.00
								Bull trout	1	0	1	1.02
								Mountain whitefish	25		25	25.51
			4	11-Sep-08	16:30	980	618	Arctic grayling	0	0	0	0.00
								Bull trout	2	0	2	2.04
								Mountain whitefish	46		46	46.94
			5	16-Sep-08	12:00	980	655	Arctic grayling	0	0	0	0.00
								Bull trout	0	0	0	0.00
								Mountain whitefish	54		54	55.10
			6	19-Sep-08	15:15	980	674	Arctic grayling	1	0	1	1.02
								Bull trout	1	1	2	2.04
								Mountain whitefish	42		42	42.86

**Appendix D Table D1 Standard boat electrofisher effort, catch, and catch-per-unit-effort, 2008
Peace River Fish Community Indexing Program.**

Area	Site	Habitat	Run	Date	Time	Effort (m) (s)	Species	Catch	Obs.	Number	CPUE (Fish/km)
Section 3											
	0307	SFN									
			1	24-Aug-08	12:45	994 519	Arctic grayling	1	1	2	2.01
							Bull trout	3	2	5	5.03
							Mountain whitefish	57		57	57.34
			2	31-Aug-08	13:45	994 490	Arctic grayling	1	1	2	2.01
							Bull trout	1	0	1	1.01
							Mountain whitefish	46		46	46.28
			3	06-Sep-08	10:45	994 517	Arctic grayling	1	0	1	1.01
							Bull trout	0	0	0	0.00
							Mountain whitefish	55		55	55.33
			4	12-Sep-08	10:00	994 556	Arctic grayling	0	0	0	0.00
							Bull trout	0	1	1	1.01
							Mountain whitefish	67		67	67.40
			5	16-Sep-08	14:00	994 564	Arctic grayling	0	0	0	0.00
							Bull trout	0	0	0	0.00
							Mountain whitefish	69		69	69.42
			6	19-Sep-08	13:30	994 560	Arctic grayling	1	0	1	1.01
							Bull trout	3	0	3	3.02
							Mountain whitefish	60		60	60.36
	0308	SFN									
			1	24-Aug-08	15:00	1155 584	Arctic grayling	0	1	1	0.87
							Bull trout	1	1	2	1.73
							Mountain whitefish	71		71	61.47
			2	31-Aug-08	15:45	1155 607	Arctic grayling	0	0	0	0.00
							Bull trout	0	0	0	0.00
							Mountain whitefish	53		53	45.89
			3	06-Sep-08	14:00	1155 652	Arctic grayling	0	0	0	0.00
							Bull trout	1	0	1	0.87
							Mountain whitefish	78		78	67.53
			4	12-Sep-08	12:00	1155 643	Arctic grayling	0	0	0	0.00
							Bull trout	3	0	3	2.60
							Mountain whitefish	80		80	69.26
			5	16-Sep-08	14:30	1155 659	Arctic grayling	0	0	0	0.00
							Bull trout	0	0	0	0.00
							Mountain whitefish	61		61	52.81
			6	19-Sep-08	14:00	1486 641	Arctic grayling	0	0	0	0.00
							Bull trout	1	0	1	0.67
							Mountain whitefish	79		79	53.16

**Appendix D Table D1 Standard boat electrofisher effort, catch, and catch-per-unit-effort, 2008
Peace River Fish Community Indexing Program.**

Area	Site	Habitat	Run	Date	Time	Effort (m) (s)	Species	Catch	Obs.	Number	CPUE (Fish/km)
Section 3											
	0309	SFN									
			1	23-Aug-08	14:30	855 514	Arctic grayling	1	0	1	1.17
							Bull trout	0	2	2	2.34
							Mountain whitefish	50		50	58.48
			2	31-Aug-08	9:45	855 456	Arctic grayling	3	0	3	3.51
							Bull trout	2	0	2	2.34
							Mountain whitefish	18		18	21.05
			3	06-Sep-08	15:15	855 550	Arctic grayling	2	1	3	3.51
							Bull trout	1	0	1	1.17
							Mountain whitefish	52		52	60.82
			4	12-Sep-08	14:15	855 500	Arctic grayling	0	0	0	0.00
							Bull trout	1	0	1	1.17
							Mountain whitefish	35		35	40.94
			5	16-Sep-08	16:00	855 566	Arctic grayling	1	0	1	1.17
							Bull trout	2	0	2	2.34
							Mountain whitefish	30		30	35.09
			6	19-Sep-08	16:15	855 531	Arctic grayling	1	0	1	1.17
							Bull trout	0	0	0	0.00
							Mountain whitefish	46		46	53.80
	0310	SFC									
			1	23-Aug-08	15:30	1208 658	Arctic grayling	0	0	0	0.00
							Bull trout	1	0	1	0.83
							Mountain whitefish	57		57	47.19
			2	31-Aug-08	11:30	1208 642	Arctic grayling	2	1	3	2.48
							Bull trout	0	1	1	0.83
							Mountain whitefish	75		75	62.09
			3	06-Sep-08	17:00	1208 696	Arctic grayling	0	1	1	0.83
							Bull trout	0	0	0	0.00
							Mountain whitefish	53		53	43.87
			4	12-Sep-08	15:00	1208 732	Arctic grayling	2	0	2	1.66
							Bull trout	0	0	0	0.00
							Mountain whitefish	54		54	44.70
			5	16-Sep-08	16:30	1208 716	Arctic grayling	2	1	3	2.48
							Bull trout	1	0	1	0.83
							Mountain whitefish	73		73	60.43
			6	19-Sep-08	16:45	1208 677	Arctic grayling	1	0	1	0.83
							Bull trout	0	0	0	0.00
							Mountain whitefish	29		29	24.01

Appendix D Table D1 Standard boat electrofisher effort, catch, and catch-per-unit-effort, 2008
Peace River Fish Community Indexing Program.

Area	Site	Habitat	Run	Date	Time	Effort (m)	Effort (s)	Species	Catch	Obs.	Number	CPUE (Fish/km)
Section 3												
	0311	SFC										
			1	23-Aug-08	13:15	1158	590	Arctic grayling	1	0	1	0.86
								Bull trout	2	0	2	1.73
								Mountain whitefish	51		51	44.04
			2	31-Aug-08	10:45	1158	580	Arctic grayling	1	0	1	0.86
								Bull trout	4	0	4	3.45
								Mountain whitefish	33		33	28.50
			3	06-Sep-08	16:00	1158	640	Arctic grayling	0	1	1	0.86
								Bull trout	5	3	8	6.91
								Mountain whitefish	40		40	34.54
			4	12-Sep-08	13:15	1158	649	Arctic grayling	0	0	0	0.00
								Bull trout	2	0	2	1.73
								Mountain whitefish	79		79	68.22
			5	16-Sep-08	15:30	1158	664	Arctic grayling	1	0	1	0.86
								Bull trout	3	1	4	3.45
								Mountain whitefish	64		64	55.27
			6	19-Sep-08	15:45	1158	697	Arctic grayling	2	0	2	1.73
								Bull trout	4	1	5	4.32
								Mountain whitefish	92		92	79.45
	0312	SFN										
			1	23-Aug-08	16:15	1343	642	Arctic grayling	0	0	0	0.00
								Bull trout	0	1	1	0.74
								Mountain whitefish	43		43	32.02
			2	31-Aug-08	12:45	1343	614	Arctic grayling	0	0	0	0.00
								Bull trout	1	1	2	1.49
								Mountain whitefish	49		49	36.49
			3	06-Sep-08	17:30	1343	657	Arctic grayling	0	0	0	0.00
								Bull trout	2	0	2	1.49
								Mountain whitefish	55		55	40.95
			4	12-Sep-08	16:00	1343	679	Arctic grayling	1	0	1	0.74
								Bull trout	1	1	2	1.49
								Mountain whitefish	70		70	52.12
			5	16-Sep-08	17:00	1343	718	Arctic grayling	0	0	0	0.00
								Bull trout	5	0	5	3.72
								Mountain whitefish	79		79	58.82
			6	19-Sep-08	17:15	1343	674	Arctic grayling	1	0	1	0.74
								Bull trout	2	2	4	2.98
								Mountain whitefish	81		81	60.31

**Appendix D Table D1 Standard boat electrofisher effort, catch, and catch-per-unit-effort, 2008
Peace River Fish Community Indexing Program.**

Area	Site	Habitat	Run	Date	Time	Effort (m) (s)	Species	Catch	Obs.	Number	CPUE (Fish/km)
Section 3											
	0314	SFC									
			1	24-Aug-08	10:45	960 562	Arctic grayling	3	0	3	3.13
							Bull trout	0	0	0	0.00
							Mountain whitefish	40		40	41.67
			2	30-Aug-08	15:00	960 606	Arctic grayling	2	1	3	3.13
							Bull trout	1	0	1	1.04
							Mountain whitefish	53		53	55.21
			3	05-Sep-08	15:30	960 569	Arctic grayling	0	2	2	2.08
							Bull trout	0	0	0	0.00
							Mountain whitefish	11		11	11.46
			4	11-Sep-08	15:30	960 703	Arctic grayling	0	1	1	1.04
							Bull trout	0	0	0	0.00
							Mountain whitefish	58		58	60.42
			5	16-Sep-08	12:45	960 658	Arctic grayling	1	0	1	1.04
							Bull trout	0	0	0	0.00
							Mountain whitefish	58		58	60.42
			6	19-Sep-08	12:15	960 640	Arctic grayling	1	0	1	1.04
							Bull trout	0	0	0	0.00
							Mountain whitefish	23		23	23.96
	0315	SFC									
			1	24-Aug-08	11:45	1674 913	Arctic grayling	3	2	5	2.99
							Bull trout	0	0	0	0.00
							Mountain whitefish	58		58	34.65
			2	30-Aug-08	16:00	1674 920	Arctic grayling	0	4	4	2.39
							Bull trout	1	1	2	1.19
							Mountain whitefish	79		79	47.19
			3	06-Sep-08	11:45	1674 1041	Arctic grayling	3	0	3	1.79
							Bull trout	0	0	0	0.00
							Mountain whitefish	81		81	48.39
			4	11-Sep-08	17:30	1674 1002	Arctic grayling	2	0	2	1.19
							Bull trout	2	1	3	1.79
							Mountain whitefish	45		45	26.88
			5	16-Sep-08	13:15	1674 1075	Arctic grayling	0	0	0	0.00
							Bull trout	1	0	1	0.60
							Mountain whitefish	106		106	63.32
			6	19-Sep-08	12:45	1674 1025	Arctic grayling	1	0	1	0.60
							Bull trout	1	0	1	0.60
							Mountain whitefish	43		43	25.69

**Appendix D Table D1 Standard boat electrofisher effort, catch, and catch-per-unit-effort, 2008
Peace River Fish Community Indexing Program.**

Area	Site	Habitat	Run	Date	Time	Effort (m)	Effort (s)	Species	Catch	Obs.	Number	CPUE (Fish/km)
Section 3												
	0316	SFC										
			1	24-Aug-08	14:00	1371	766	Arctic grayling	5	6	11	8.02
								Bull trout	4	2	6	4.38
								Mountain whitefish	85		85	62.00
			2	31-Aug-08	14:45	1371	761	Arctic grayling	3	2	5	3.65
								Bull trout	2	1	3	2.19
								Mountain whitefish	63		63	45.95
			3	06-Sep-08	13:15	1371	863	Arctic grayling	1	1	2	1.46
								Bull trout	1	1	2	1.46
								Mountain whitefish	55		55	40.12
			4	12-Sep-08	11:00	1371	829	Arctic grayling	2	1	3	2.19
								Bull trout	2	0	2	1.46
								Mountain whitefish	68		68	49.60
			5	16-Sep-08	15:00	1371	926	Arctic grayling	2	4	6	4.38
								Bull trout	2	1	3	2.19
								Mountain whitefish	97		97	70.75
			6	19-Sep-08	14:45	1371	844	Arctic grayling	0	2	2	1.46
								Bull trout	2	2	4	2.92
								Mountain whitefish	91		91	66.37

**Appendix D Table D1 Standard boat electrofisher effort, catch, and catch-per-unit-effort, 2008
Peace River Fish Community Indexing Program.**

Area	Site	Habitat	Run	Date	Time	Effort (m)	Effort (s)	Species	Catch	Obs.	Number	CPUE (Fish/km)
Section	5											
	0501	SFC										
			1	26-Aug-08	10:00	762	534	Arctic grayling	1	2	3	3.94
								Bull trout	1	0	1	1.31
								Mountain whitefish	28		28	36.75
			2	01-Sep-08	9:45	562	449	Arctic grayling	1	0	1	1.78
								Bull trout	0	0	0	0.00
								Mountain whitefish	27		27	48.04
			3	07-Sep-08	11:00	762	479	Arctic grayling	0	1	1	1.31
								Bull trout	2	0	2	2.62
								Mountain whitefish	37		37	48.56
			4	13-Sep-08	11:30	762	498	Arctic grayling	1	0	1	1.31
								Bull trout	1	0	1	1.31
								Mountain whitefish	43		43	56.43
			5	17-Sep-08	10:00	762	514	Arctic grayling	0	0	0	0.00
								Bull trout	0	1	1	1.31
								Mountain whitefish	48		48	62.99
			6	20-Sep-08	9:15	762	468	Arctic grayling	1	0	1	1.31
								Bull trout	0	0	0	0.00
								Mountain whitefish	41		41	53.81
	0502	SFC										
			1	26-Aug-08	10:45	1013	485	Arctic grayling	4	6	10	9.87
								Bull trout	1	0	1	0.99
								Mountain whitefish	39		39	38.50
			2	01-Sep-08	11:30	1013	443	Arctic grayling	1	3	4	3.95
								Bull trout	0	0	0	0.00
								Mountain whitefish	57		57	56.27
			3	07-Sep-08	12:15	1013	465	Arctic grayling	0	2	2	1.97
								Bull trout	0	0	0	0.00
								Mountain whitefish	68		68	67.13
			4	13-Sep-08	13:00	1013	482	Arctic grayling	0	0	0	0.00
								Bull trout	1	1	2	1.97
								Mountain whitefish	74		74	73.05
			5	17-Sep-08	10:30	1013	490	Arctic grayling	0	0	0	0.00
								Bull trout	2	1	3	2.96
								Mountain whitefish	71		71	70.09
			6	20-Sep-08	9:45	1013	447	Arctic grayling	1	0	1	0.99
								Bull trout	0	0	0	0.00
								Mountain whitefish	59		59	58.24

**Appendix D Table D1 Standard boat electrofisher effort, catch, and catch-per-unit-effort, 2008
Peace River Fish Community Indexing Program.**

Area	Site	Habitat	Run	Date	Time	Effort (m)	Effort (s)	Species	Catch	Obs.	Number	CPUE (Fish/km)
Section	5											
	0503	SFN										
			1	26-Aug-08	9:15	1059	397	Arctic grayling	3	3	6	5.67
								Bull trout	1	1	2	1.89
								Mountain whitefish	30		30	28.33
			2	01-Sep-08	9:15	1059	356	Arctic grayling	1	1	2	1.89
								Bull trout	0	1	1	0.94
								Mountain whitefish	54		54	50.99
			3	07-Sep-08	10:00	1059	425	Arctic grayling	3	3	6	5.67
								Bull trout	1	0	1	0.94
								Mountain whitefish	45		45	42.49
			4	13-Sep-08	11:00	1059	433	Arctic grayling	1	0	1	0.94
								Bull trout	0	0	0	0.00
								Mountain whitefish	39		39	36.83
			5	17-Sep-08	9:30	1059	417	Arctic grayling	0	0	0	0.00
								Bull trout	0	0	0	0.00
								Mountain whitefish	44		44	41.55
			6	20-Sep-08	8:45	1059	425	Arctic grayling	0	0	0	0.00
								Bull trout	0	0	0	0.00
								Mountain whitefish	51		51	48.16
	0504	SFN										
			1	27-Aug-08	9:30	582	366	Arctic grayling	0	0	0	0.00
								Bull trout	0	0	0	0.00
								Mountain whitefish	29		29	49.83
			2	01-Sep-08	10:45	582	441	Arctic grayling	0	0	0	0.00
								Bull trout	0	0	0	0.00
								Mountain whitefish	28		28	48.11
			3	07-Sep-08	11:45	582	427	Arctic grayling	0	0	0	0.00
								Bull trout	0	0	0	0.00
								Mountain whitefish	25		25	42.96
			4	13-Sep-08	12:15	582	469	Arctic grayling	0	0	0	0.00
								Bull trout	0	0	0	0.00
								Mountain whitefish	34		34	58.42
			5	17-Sep-08	10:45	582	432	Arctic grayling	0	0	0	0.00
								Bull trout	0	0	0	0.00
								Mountain whitefish	23		23	39.52
			6	20-Sep-08	10:00	582	436	Arctic grayling	1	1	2	3.44
								Bull trout	1	1	2	3.44
								Mountain whitefish	51		51	87.63

**Appendix D Table D1 Standard boat electrofisher effort, catch, and catch-per-unit-effort, 2008
Peace River Fish Community Indexing Program.**

Area	Site	Habitat	Run	Date	Time	Effort (m) (s)	Species	Catch	Obs.	Number	CPUE (Fish/km)
Section	5										
	0505	SFC									
			1	26-Aug-08	16:45	976 551	Arctic grayling	5	6	11	11.27
							Bull trout	0	4	4	4.10
							Mountain whitefish	27		27	27.66
			2	01-Sep-08	12:30	976 554	Arctic grayling	1	3	4	4.10
							Bull trout	1	4	5	5.12
							Mountain whitefish	20		20	20.49
			3	07-Sep-08	13:45	976 622	Arctic grayling	5	2	7	7.17
							Bull trout	3	0	3	3.07
							Mountain whitefish	34		34	34.84
			4	13-Sep-08	14:15	976 619	Arctic grayling	1	0	1	1.02
							Bull trout	2	0	2	2.05
							Mountain whitefish	39		39	39.96
			5	17-Sep-08	11:15	976 637	Arctic grayling	2	1	3	3.07
							Bull trout	3	0	3	3.07
							Mountain whitefish	27		27	27.66
			6	20-Sep-08	10:30	976 581	Arctic grayling	1	0	1	1.02
							Bull trout	0	0	0	0.00
							Mountain whitefish	27		27	27.66
	0506	SFC									
			1	26-Aug-08	17:30	1069 587	Arctic grayling	0	0	0	0.00
							Bull trout	0	0	0	0.00
							Mountain whitefish	11		11	10.29
			2	01-Sep-08	13:15	1069 623	Arctic grayling	2	0	2	1.87
							Bull trout	3	1	4	3.74
							Mountain whitefish	24		24	22.45
			3	07-Sep-08	14:45	1069 649	Arctic grayling	2	1	3	2.81
							Bull trout	0	0	0	0.00
							Mountain whitefish	15		15	14.03
			4	13-Sep-08	15:00	1069 708	Arctic grayling	0	1	1	0.94
							Bull trout	2	0	2	1.87
							Mountain whitefish	14		14	13.10
			5	17-Sep-08	11:45	1069 689	Arctic grayling	1	0	1	0.94
							Bull trout	2	0	2	1.87
							Mountain whitefish	24		24	22.45
			6	20-Sep-08	11:00	1069 765	Arctic grayling	1	1	2	1.87
							Bull trout	1	1	2	1.87
							Mountain whitefish	13		13	12.16

**Appendix D Table D1 Standard boat electrofisher effort, catch, and catch-per-unit-effort, 2008
Peace River Fish Community Indexing Program.**

Area	Site	Habitat	Run	Date	Time	Effort (m) (s)	Species	Catch	Obs.	Number	CPUE (Fish/km)
Section 5											
	0507	SFC									
			1	26-Aug-08	16:15	1087 352	Arctic grayling	0	4	4	3.68
							Bull trout	0	0	0	0.00
							Mountain whitefish	21		21	19.32
			2	01-Sep-08	13:45	1087 329	Arctic grayling	3	0	3	2.76
							Bull trout	0	0	0	0.00
							Mountain whitefish	70		70	64.40
			3	07-Sep-08	15:15	1087 387	Arctic grayling	0	1	1	0.92
							Bull trout	0	0	0	0.00
							Mountain whitefish	35		35	32.20
			4	13-Sep-08	15:30	1087 355	Arctic grayling	0	1	1	0.92
							Bull trout	1	1	2	1.84
							Mountain whitefish	44		44	40.48
			5	17-Sep-08	12:15	1087 353	Arctic grayling	0	0	0	0.00
							Bull trout	0	0	0	0.00
							Mountain whitefish	35		35	32.20
			6	20-Sep-08	11:30	1087 362	Arctic grayling	1	0	1	0.92
							Bull trout	0	0	0	0.00
							Mountain whitefish	36		36	33.12
	0508	SFC									
			1	25-Aug-08	16:00	971 468	Arctic grayling	9	11	20	20.60
							Bull trout	1	0	1	1.03
							Mountain whitefish	44		44	45.31
			2	02-Sep-08	15:30	971 480	Arctic grayling	6	3	9	9.27
							Bull trout	1	0	1	1.03
							Mountain whitefish	50		50	51.49
			3	08-Sep-08	14:00	971 528	Arctic grayling	1	0	1	1.03
							Bull trout	4	0	4	4.12
							Mountain whitefish	51		51	52.52
			4	14-Sep-08	13:15	971 582	Arctic grayling	4	3	7	7.21
							Bull trout	0	0	0	0.00
							Mountain whitefish	58		58	59.73
			5	17-Sep-08	15:45	971 526	Arctic grayling	2	0	2	2.06
							Bull trout	1	0	1	1.03
							Mountain whitefish	53		53	54.58
			6	20-Sep-08	15:00	971 529	Arctic grayling	3	0	3	3.09
							Bull trout	0	0	0	0.00
							Mountain whitefish	73		73	75.18

**Appendix D Table D1 Standard boat electrofisher effort, catch, and catch-per-unit-effort, 2008
Peace River Fish Community Indexing Program.**

Area	Site	Habitat	Run	Date	Time	Effort (m)	Effort (s)	Species	Catch	Obs.	Number	CPUE (Fish/km)
Section 5												
	0509	SFN										
			1	26-Aug-08	18:00	898	471	Arctic grayling	8	4	12	13.36
								Bull trout	1	0	1	1.11
								Mountain whitefish	39		39	43.43
			2	01-Sep-08	14:30	898	493	Arctic grayling	0	1	1	1.11
								Bull trout	0	0	0	0.00
								Mountain whitefish	0		0	0.00
			3	07-Sep-08	16:00	898	542	Arctic grayling	1	0	1	1.11
								Bull trout	2	1	3	3.34
								Mountain whitefish	42		42	46.77
			4	13-Sep-08	16:00	898	549	Arctic grayling	0	0	0	0.00
								Bull trout	1	0	1	1.11
								Mountain whitefish	45		45	50.11
			5	17-Sep-08	12:30	898	542	Arctic grayling	0	0	0	0.00
								Bull trout	1	0	1	1.11
								Mountain whitefish	83		83	92.43
			6	20-Sep-08	11:45	898	517	Arctic grayling	0	1	1	1.11
								Bull trout	0	0	0	0.00
								Mountain whitefish	68		68	75.72
	0510	SFC										
			1	27-Aug-08	10:30	1171	648	Arctic grayling	5	5	10	8.54
								Bull trout	0	1	1	0.85
								Mountain whitefish	34		34	29.04
			2	01-Sep-08	15:15	1171	637	Arctic grayling	6	2	8	6.83
								Bull trout	2	0	2	1.71
								Mountain whitefish	52		52	44.41
			3	08-Sep-08	9:45	1171	657	Arctic grayling	1	0	1	0.85
								Bull trout	1	0	1	0.85
								Mountain whitefish	41		41	35.01
			4	13-Sep-08	9:45	1171	611	Arctic grayling	2	0	2	1.71
								Bull trout	2	0	2	1.71
								Mountain whitefish	33		33	28.18
			5	17-Sep-08	13:45	1171	677	Arctic grayling	1	0	1	0.85
								Bull trout	0	0	0	0.00
								Mountain whitefish	54		54	46.11
			6	20-Sep-08	13:00	1171	629	Arctic grayling	0	0	0	0.00
								Bull trout	2	1	3	2.56
								Mountain whitefish	51		51	43.55

**Appendix D Table D1 Standard boat electrofisher effort, catch, and catch-per-unit-effort, 2008
Peace River Fish Community Indexing Program.**

Area	Site	Habitat	Run	Date	Time	Effort (m) (s)	Species	Catch	Obs.	Number	CPUE (Fish/km)
Section 5											
	0511	SFC									
			1	27-Aug-08	11:15	924 527	Arctic grayling	0	1	1	1.08
							Bull trout	1	1	2	2.16
							Mountain whitefish	29		29	31.39
			2	02-Sep-08	11:45	924 381	Arctic grayling	0	1	1	1.08
							Bull trout	1	1	2	2.16
							Mountain whitefish	19		19	20.56
			3	08-Sep-08	10:45	924 494	Arctic grayling	0	0	0	0.00
							Bull trout	1	0	1	1.08
							Mountain whitefish	25		25	27.06
			4	14-Sep-08	10:30	924 513	Arctic grayling	0	1	1	1.08
							Bull trout	0	1	1	1.08
							Mountain whitefish	27		27	29.22
			5	17-Sep-08	14:00	924 567	Arctic grayling	1	0	1	1.08
							Bull trout	2	2	4	4.33
							Mountain whitefish	31		31	33.55
			6	20-Sep-08	13:30	924 591	Arctic grayling	1	0	1	1.08
							Bull trout	1	1	2	2.16
							Mountain whitefish	25		25	27.06
	0512	SFN									
			1	26-Aug-08	18:45	1098 602	Arctic grayling	0	0	0	0.00
							Bull trout	0	1	1	0.91
							Mountain whitefish	46		46	41.89
			2	02-Sep-08	10:45	1098 551	Arctic grayling	1	0	1	0.91
							Bull trout	1	2	3	2.73
							Mountain whitefish	33		33	30.05
			3	07-Sep-08	17:00	1098 703	Arctic grayling	0	0	0	0.00
							Bull trout	2	1	3	2.73
							Mountain whitefish	36		36	32.79
			4	14-Sep-08	9:45	1098 646	Arctic grayling	1	0	1	0.91
							Bull trout	0	0	0	0.00
							Mountain whitefish	31		31	28.23
			5	17-Sep-08	13:15	1098 698	Arctic grayling	0	0	0	0.00
							Bull trout	1	0	1	0.91
							Mountain whitefish	36		36	32.79
			6	20-Sep-08	12:30	1098 692	Arctic grayling	2	0	2	1.82
							Bull trout	0	0	0	0.00
							Mountain whitefish	27		27	24.59

**Appendix D Table D1 Standard boat electrofisher effort, catch, and catch-per-unit-effort, 2008
Peace River Fish Community Indexing Program.**

Area	Site	Habitat	Run	Date	Time	Effort (m)	Effort (s)	Species	Catch	Obs.	Number	CPUE (Fish/km)
Section 5												
	0513	SFN										
			1	27-Aug-08	13:15	999	426	Arctic grayling	0	1	1	1.00
								Bull trout	2	0	2	2.00
								Mountain whitefish	54		54	54.05
			2	02-Sep-08	14:00	999	382	Arctic grayling	1	0	1	1.00
								Bull trout	0	0	0	0.00
								Mountain whitefish	31		31	31.03
			3	08-Sep-08	12:00	999	415	Arctic grayling	0	1	1	1.00
								Bull trout	1	1	2	2.00
								Mountain whitefish	49		49	49.05
			4	14-Sep-08	12:00	999	415	Arctic grayling	0	1	1	1.00
								Bull trout	0	0	0	0.00
								Mountain whitefish	31		31	31.03
			5	17-Sep-08	15:00	999	414	Arctic grayling	0	1	1	1.00
								Bull trout	1	0	1	1.00
								Mountain whitefish	34		34	34.03
			6	20-Sep-08	14:15	999	397	Arctic grayling	1	0	1	1.00
								Bull trout	1	0	1	1.00
								Mountain whitefish	22		22	22.02
	0514	SFN										
			1	27-Aug-08	14:00	785	350	Arctic grayling	0	0	0	0.00
								Bull trout	0	0	0	0.00
								Mountain whitefish	23		23	29.30
			2	02-Sep-08	15:00	785	318	Arctic grayling	1	0	1	1.27
								Bull trout	0	1	1	1.27
								Mountain whitefish	29		29	36.94
			3	08-Sep-08	13:15	785	363	Arctic grayling	0	0	0	0.00
								Bull trout	0	1	1	1.27
								Mountain whitefish	26		26	33.12
			4	14-Sep-08	12:45	785	334	Arctic grayling	0	0	0	0.00
								Bull trout	0	0	0	0.00
								Mountain whitefish	15		15	19.11
			5	17-Sep-08	15:15	785	340	Arctic grayling	0	0	0	0.00
								Bull trout	0	0	0	0.00
								Mountain whitefish	18		18	22.93
			6	20-Sep-08	14:45	785	327	Arctic grayling	0	0	0	0.00
								Bull trout	0	0	0	0.00
								Mountain whitefish	18		18	22.93

**Appendix D Table D1 Standard boat electrofisher effort, catch, and catch-per-unit-effort, 2008
Peace River Fish Community Indexing Program.**

Area	Site	Habitat	Run	Date	Time	Effort (m) (s)	Species	Catch	Obs.	Number	CPUE (Fish/km)
Section	5										
	0515	SFN									
			1	27-Aug-08	12:15	802 557	Arctic grayling	3	2	5	6.23
							Bull trout	0	0	0	0.00
							Mountain whitefish	64		64	79.80
			2	02-Sep-08	13:00	802 509	Arctic grayling	0	0	0	0.00
							Bull trout	0	3	3	3.74
							Mountain whitefish	37		37	46.13
			3	08-Sep-08	11:30	802 533	Arctic grayling	4	2	6	7.48
							Bull trout	1	0	1	1.25
							Mountain whitefish	35		35	43.64
			4	14-Sep-08	11:15	802 555	Arctic grayling	2	1	3	3.74
							Bull trout	0	0	0	0.00
							Mountain whitefish	28		28	34.91
			5	17-Sep-08	14:30	802 538	Arctic grayling	0	0	0	0.00
							Bull trout	0	0	0	0.00
							Mountain whitefish	22		22	27.43
			6	20-Sep-08	14:00	802 594	Arctic grayling	1	0	1	1.25
							Bull trout	0	0	0	0.00
							Mountain whitefish	32		32	39.90

Appendix E
Population Estimates

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APPENDIX E

POPULATION ESTIMATES

Mountain Whitefish

Characteristics that Impact Population Estimates

A comparison of mountain whitefish recapture rate by tag type is plotted in Figure E.1. A comparison of the recovery rates by the year of tag application and section is recorded in Table E.1. The rates of recapture by year of release were significantly different for Section 1 ($P < 0.05$) and not significant in sections 3 and 5. Consistent with earlier studies, fish marked prior to 2006 were slightly more susceptible to capture in 2008.

Figure E.2 plots the proportion of available marked fish recaptured two and three times by sampling session. If fish were not influenced by electrofishing (more or less prone to subsequent recapture) then the lines in Figure E.2 should coincide and be horizontal. The confidence bounds on the recapture proportions, assuming a multinomial distribution, overlap all other points.

Histograms of the mountain whitefish lengths at release and recapture are plotted in Figures E.3 and E.4, respectively. Inspection of the figures reveals that smaller fish (250-275 mm) were not recaptured with the same frequency. A comparison of the lengths (accumulated into 25 mm intervals) by section is tabulated in Table E.2. While significant differences were not observed ($P > 0.05$) in any of the sections, a slight under representation of smaller fish in the recapture record has been seen consistently in this study and in all of the previous studies.

Time at large of recaptured mountain whitefish regressed on the growth increment (length at release minus length at recapture) is plotted in Figure E.5. There was minor but statistically significant growth of marked fish over the study. Therefore, the boarder histogram of the growth increment provides an indication of measurement error (residual standard deviation of 4.3 mm for each measurement). Removal of three outliers reduces the standard deviation to 3.5 mm, which is consistent to that in other years.

The movement of recaptured mountain whitefish between sections during 2008 is listed in Table E.3 along with the estimates of the migration proportions adjusted for the number of fish examined (Equation 1). These proportions are plotted in Figure E.6. Figure E.7 provides a bar plot of the distance traveled within each section for marked fish released in 2008. Positive values indicate fish were recaptured upstream of the release site and *vice-versa*. Note that most fish were recaptured in the same

site-of-release. The movement of recaptured whitefish between sections with the marks applied in 2002 to 2007 are tabulated in Table E.4 and plotted in Figures E.8 to E.13, respectively. For the 2002 to 2007 releases, a bar plot of the distance traveled within each section is displayed in Figure E.14. There was more movement plotted within sections 3 and 5 than were plotted in other years. However, consistent with movement patterns in previous studies, mountain whitefish are remarkably senescent.

Empirical Model Selection

The empirical evaluation of recaptured tags assuming homogeneous or heterogeneous capture probabilities using MARK software is provided by Table E.5. For all sections, the constant recapture model was the most likely; although, there is little to choose between models.

The data summary for the Jolly-Seber open population model and the associated estimates of abundance, survival (from any source of mortality or movement from the section) and births (immigration into the section) by river section are provided in Table E.6. The total row for each section provides the mean estimated abundance over the sampled sessions, total survival is under the constant survival option and total births is the simple sum of estimated births by session. For all sections, the 95% confidence interval for survival included 1.0. For sections 1 and 3, the births (fish entering the section) were significantly different than 0.

These diagnostics indicated either a closed population with time varying capture probability or an open population with immigrants for sections 1 and 3. Section 5 diagnostics indicate a closed population with constant capture probability.

Bayes Sequential Model for a Closed Population

The mark-recapture data were extracted by section from the database using marks applied during 2008 (PIT tags) and marks that were observed during 2008 that were originally applied in 2001 to 2007 (Floy and PIT tags) and a minimum length of 250 mm. Table E.7 lists mountain whitefish examined for marks and recaptures by date and section. The releases, adjusted for movement between sections (Equation 1) by section and date, are given in Table E.8. The compilations of marks available (Equation 3), fish examined (Equation 4), and recaptures (Equation 5) assuming 0.0 removal and 0% undetected mark rate are listed in Table E.9. The subsequent population estimates using the Bayesian closed model are given in Table E.10. The sequential posterior probability plots by section are provided in Figures E.15, E.16 and E.17. The final posterior distributions for the three sections are drawn in Figure E.18.

The sequence of posterior probability plots can be used as an indicator of closure or change in the population size over the study period (Gazey and Staley 1986). Trends in the posterior plots can also be

caused by trends in catchability or capture probability (changes in population size and changes in catchability over the study period are confounded). Inspection of the posterior probability plot sequences reveals that none of the sections are consistent with a convergence of the modal population size. To further examine the apparent change in capture probability the deviation from the overall mean was calculated for each sampling day using the maximum likelihood estimate for each day (see Figure E.19). In section 1, the first two sequences (two days from the second session) are substantially different than the other posterior sequences; however, they represent less than 5% of the recaptures. These observations are generally consistent with the automated model selection (UFIT) and the Jolly-Seber recruitment and survival estimates (Table E.6). The exception is Section 5 where the posterior plots clearly indicate closure problems not detected by UFIT and by the Jolly-Seber estimates.

Arctic Grayling

The mark-recapture data were extracted by section from the database using all available marks with a minimum length of 250 mm. Table E.11 lists Arctic grayling examined for marks and recaptures by date and section. No Arctic grayling were recaptured in Section 1; thus, no population estimates were generated for the section. There was no movement between sections. Given the sparse recoveries, length histograms and a growth regression were not conducted. The releases by section and date are given in Table E.12. The compilations of marks available (Equation 3), fish examined (Equation 4), and recaptures (Equation 5) assuming 0.0 removal and 0% undetected mark rate are listed in Table E.13. The population estimate using the Bayesian closed model is given in Table E.14, the associated sequential posterior probability plots are provided in Figures E.20 and E.21, and the final posterior distributions are drawn in Figure E.22. Because of sparse recoveries, the posterior distribution for Section 3 is highly skewed and mean estimates are unreliable. The plot for minimal population estimates is plotted in Figure E.23 (there is a 0.95 probability that the population size is at least 490 Arctic grayling in Section 3).

Bull trout

The mark-recapture data were extracted by section from the database using all marks applied with a minimum length of 250 mm. Table E.15 lists bull trout examined for marks and recaptures by date and section. There was no movement between sections. The releases by section and date are given in Table E.16. The compilations of marks available (Equation 3), fish examined (Equation 4), and recaptures (Equation 5) assuming 0.0 removal and 0% undetected mark rate are listed in Table E.17 by river section. The subsequent population estimates using the Bayesian closed model are given in Table E.18, the associated sequential posterior probability plots are provided in Figures E.24 to E.26, and the final posterior distributions are drawn in Figure E.27. Because of sparse recoveries, the posterior distribution for Section 1 is highly skewed and mean estimates are unreliable. The plot for minimal population estimates is plotted in Figure E.28 (there is a 0.95 probability that the population size is at least 52 bull trout in Section 1).

Table E.1 A comparison of mountain whitefish recaptured in 2008 that were marked in 2001 to 2008 by section.

	One	Three	Five	Total
Released in 2001				
Recaptures	2		1	3
Marks	8	2	3	13
Percent	25.0		33.3	23.1
Time-at-large (days)	14.0		4.0	10.7
Released in 2002				
Recaptures	9	20		29
Marks	54	82	2	138
Percent	16.7	24.4		21.0
Time-at-large (days)	15.3	12.9		13.6
Released in 2003				
Recaptures	5	10		15
Marks	74	80	5	159
Percent	6.8	12.5		9.4
Time-at-large (days)	15.8	11.7		13.1
Released in 2004				
Recaptures	19	19	8	46
Marks	115	107	67	289
Percent	16.5	17.8	11.9	15.9
Time-at-large (days)	17.9	12.3	13.9	14.9
Released in 2005				
Recaptures	9	31	17	57
Marks	66	161	93	320
Percent	13.6	19.3	18.3	17.8
Time-at-large (days)	16.2	13.1	9.8	12.6
Released in 2006				
Recaptures	16	14		30
Marks	140	96	3	239
Percent	11.4	14.6		12.6
Time-at-large (days)	12.6	13.6		13.1
Released in 2007				
Recaptures	9	30	15	54
Marks	92	183	111	386
Percent	9.8	16.4	13.5	14.0
Time-at-large (days)	8.3	13.5	11.9	12.2
Released in 2008				
Recaptures	95	185	134	414
Marks	1239	1461	1108	3808
Percent	7.7	12.7	12.1	10.9
Time-at-large (days)	13.3	12.2	11.5	12.2
Independence Test:				
Probability	0.016	0.092	0.513	0.001

Table E.2 Comparison of mountain whitefish lengths at release and recapture by section.

Length Interval	Section							
	One		Three		Five		Total	
	Count	Percent	Count	Percent	Count	Percent	Count	Percent
Recaptures								
250-275	12	7.3	42	13.6	29	16.9	83	12.9
275-300	42	25.6	75	24.3	40	23.3	157	24.3
300-325	62	37.8	80	25.9	27	15.7	169	26.2
325-350	35	21.3	59	19.1	27	15.7	121	18.8
350-375	11	6.7	27	8.7	28	16.3	66	10.2
375-400	1	0.6	15	4.9	11	6.4	27	4.2
400-425			9	2.9	5	2.9	14	2.2
425-450	1	0.6	2	0.6	5	2.9	8	1.2
Total	164	100.0	309	100.0	172	100.0	645	100.0
Releases								
250-275	343	19.2	348	16.1	205	15.0	896	16.9
275-300	455	25.5	489	22.7	269	19.6	1213	22.8
300-325	546	30.6	452	20.9	258	18.8	1256	23.6
325-350	341	19.1	369	17.1	222	16.2	932	17.5
350-375	70	3.9	266	12.3	196	14.3	532	10.0
375-400	18	1.0	130	6.0	126	9.2	274	5.2
400-425	10	0.6	87	4.0	61	4.5	158	3.0
425-450	3	0.2	17	0.8	33	2.4	53	1.0
Total	1786	100.0	2158	100.0	1370	100.0	5314	100.0
Like Ratio Chi-Square	9.98		4.91		2.58		5.71	
Probability	0.125		0.767		0.958		0.679	

Table E.3 Mountain whitefish recaptures and migration proportions adjusted (inverse weight) for fish examined by section released and recaptured during 2008.

Release Section	Recapture Section			
	One	Three	Five	Total
Recaptures:				
One	164	1	1	166
Three	0	307	5	312
Five	0	1	169	170
Sample:	2156	2905	1978	7039
Recap. %	7.61	10.64	8.85	
Proportions:				
One	0.989	0.004	0.007	1.000
Three	0.000	0.977	0.023	1.000
Five	0.000	0.004	0.996	1.000

Table E.4 Mountain whitefish recaptures and migration proportions adjusted (inverse weight) for fish examined by section released during 2002 to 2007 and recaptured in 2008.

Release Section	Recapture Section			Total	Release Section	Recapture Section			Total
	One	Three	Five			One	Three	Five	
2002 Releases					2005 Releases				
Recaptures:					Recaptures:				
One	60			60	One	76	1	1	78
Two	1	8		9	Three	2	188	3	193
Three	2	92		94	Five	0	7	108	115
Four	1	3	2	6					
Sample:	2156	2905	1978	7039	Sample:	2156	2905	1978	7039
Recap. %	2.97	3.55	0.10		Recap. %	3.62	6.75	5.66	
Proportions:					Proportions:				
One	1.000	0.000	0.000	1.000	One	0.976	0.010	0.014	1.000
Two	0.144	0.856	0.000	1.000	Three	0.014	0.964	0.023	1.000
Three	0.028	0.972	0.000	1.000	Five	0.000	0.042	0.958	1.000
Four	0.185	0.412	0.403	1.000					
2003 Releases					2006 Releases				
Recaptures:					Recaptures:				
One	82	5		87	One	157	0	1	158
Two		1		1	Two	1	113	1	115
Three		84	2	86	Three				
Four		2	3	5					
Sample:	2156	2905	1978	7039	Sample:	2156	2905	1978	7039
Recap. %	3.80	3.17	0.25		Recap. %	7.33	3.89	0.10	
Proportions:					Proportions:				
One	0.957	0.043	0.000	1.000	One	0.993	0.000	0.007	1.000
Two	0.000	1.000	0.000	1.000	Two	0.012	0.976	0.013	1.000
Three	0.000	0.966	0.034	1.000	Three				
Four	0.000	0.312	0.688	1.000					
2004 Releases					2007 Releases				
Recaptures:					Recaptures:				
One	130	0	0	130	One	104	1	2	107
Three	4	126	3	133	Three	0	214	1	215
Five	0	2	75	77	Five	0	0	125	125
Sample:	2156	2905	1978	7039	Sample:	2156	2905	1978	7039
Recap. %	6.22	4.41	3.94		Recap. %	4.82	7.40	6.47	
Proportions:					Proportions:				
One	1.000	0.000	0.000	1.000	One	0.973	0.007	0.020	1.000
Three	0.040	0.928	0.032	1.000	Three	0.000	0.993	0.007	1.000
Five	0.000	0.018	0.982	1.000	Five	0.000	0.000	1.000	1.000

Table E.5 Delta Akaike's information criteria for alternative models adjusted to account for the number of parameters (DAICC).

Model	Section One	Section Three		Section Five	
	Delta AICc	Model	Delta AICc	Model	Delta AICc
Mo	0.0	Mo	0.0	Mo	0.0
Mh	3.5	Mh	0.5	Mh	2.0

Models:

Mo - constant capture probability

Mh - heterogeneous capture probability

Table E.6 Jolly-Seber population estimates by river section for mountain whitefish.

Session	Marks	Sample	Recap. of Fish Marked at Session					Total	Abun	Surv	Births
			1	2	3	4	5				
Section One											
1	444										
2	437	175	7				7	8,471	1.022	2,507	
3	370	375	8	11			19	11,428	0.955	467	
4	382	433	12	18	11		41	11,377			
5	93	539	12	9	9	16	46				
6		491	11	14	11	10	5	51			
Total			50	52	31	26	5		10,425	0.993	2,974
Section Three											
1	464										
2	491	344	29				29	4,898	0.979	1,449	
3	483	478	22	25			47	6,389	1.056	3,320	
4	540	605	18	25	24		67	10,070			
5	125	663	23	18	32	24	97				
6		599	13	21	15	13	5	67			
Total			105	89	71	37	5		7,119	1.013	4,768
Section Five											
1	304										
2	355	364	20				20	9,809	0.975	130	
3	338	353	16	17			33	9,689	1.029	465	
4	333	370	9	12	12		33	10,417			
5	33	442	15	11	15	10	51				
6		381	6	6	9	9	2	32			
Total			66	46	36	19	2		9,972	1.000	595

Table E.7 Sample size and recaptures of mountain whitefish by section and date.

Date	One		Three		Five		Total	
	Sample	Recap.	Sample	Recap.	Sample	Recap.	Sample	Recap.
8/21/08	143	0	0	0	0	0	143	0
8/22/08	0	0	100	0	0	0	100	0
8/23/08	0	0	51	0	0	0	51	0
8/24/08	0	0	65	0	0	0	65	0
8/25/08	0	0	0	0	4	0	4	0
8/26/08	0	0	0	0	32	0	32	0
8/27/08	0	0	0	0	32	0	32	0
8/28/08	84	4	0	0	0	0	84	4
8/29/08	91	3	0	0	0	0	91	3
8/30/08	0	0	223	15	0	0	223	15
8/31/08	0	0	121	14	0	0	121	14
9/01/08	0	0	0	0	207	14	207	14
9/02/08	0	0	0	0	157	6	157	6
9/03/08	184	5	0	0	0	0	184	5
9/04/08	191	14	0	0	0	0	191	14
9/05/08	0	0	227	20	0	0	227	20
9/06/08	0	0	251	27	0	0	251	27
9/07/08	0	0	0	0	196	21	196	21
9/08/08	0	0	0	0	157	12	157	12
9/09/08	194	20	0	0	0	0	194	20
9/10/08	239	21	0	0	0	0	239	21
9/11/08	0	0	346	34	0	0	346	34
9/12/08	0	0	259	33	0	0	259	33
9/13/08	0	0	0	0	239	24	239	24
9/14/08	0	0	0	0	131	12	131	12
9/15/08	539	46	0	0	0	0	539	46
9/16/08	0	0	663	97	0	0	663	97
9/17/08	0	0	0	0	442	52	442	52
9/18/08	491	51	0	0	0	0	491	51
9/19/08	0	0	599	69	0	0	599	69
9/20/08	0	0	0	0	381	34	381	34
Total	2,156	164	2,905	309	1,978	175	7,039	648

Table E.8 Mountain whitefish marks applied by section adjusted for migration.

Date	One	Three	Five	Total
8/21/08	237	1	2	240
8/22/08	0	163	4	167
8/23/08	0	105	3	108
8/24/08	0	185	4	189
8/25/08	0	0	15	15
8/26/08	0	1	138	139
8/27/08	0	1	149	150
8/28/08	268	1	2	271
8/29/08	164	1	1	166
8/30/08	0	286	7	293
8/31/08	0	193	5	198
9/01/08	0	1	205	206
9/02/08	0	1	148	149
9/03/08	168	1	1	170
9/04/08	198	1	1	200
9/05/08	0	201	5	206
9/06/08	0	271	6	277
9/07/08	0	1	193	194
9/08/08	0	1	143	144
9/09/08	168	1	1	170
9/10/08	210	1	1	212
9/11/08	0	299	7	306
9/12/08	0	229	5	234
9/13/08	0	1	211	212
9/14/08	0	0	121	121
9/15/08	92	0	1	93
9/16/08	0	122	3	125
9/17/08	0	0	33	33
9/18/08	61	0	0	62
9/19/08	0	67	2	69
9/20/08	0	0	29	29
Total	1,566	2,134	1,448	5,148

Table E.9 Mountain whitefish sample, cumulative marks available for recapture and recaptures by section.

Date	Sample	Marks	Recap.	Date	Sample	Marks	Recap.
Section One:				Section Three:			
8/28/08	84	237	4	9/01/08	207	318	14
8/29/08	91	237	3	9/02/08	157	325	6
9/03/08	184	670	5	9/07/08	196	686	21
9/04/08	191	670	14	9/08/08	157	690	12
9/09/08	194	1035	20	9/13/08	239	1036	24
9/10/08	239	1035	21	9/14/08	131	1043	12
9/15/08	539	1413	46	9/17/08	442	1380	52
9/18/08	491	1505	51	9/20/08	381	1417	34
Section Five:							
9/03/07	145	348	7				
9/04/07	178	354	8				
9/09/07	181	649	27				
9/10/07	125	652	10				
9/15/07	232	913	30				
9/16/07	136	918	19				
9/19/07	417	1227	50				
9/24/07	444	1273	42				

Table E.10 Population estimates by section for mountain whitefish.

Section	Bayes Mean	MLE	95% HPD		Standard Deviation	CV (%)
			Low	High		
One	13,884	13,720	11,900	15,970	1,039	7.5
Three	13,125	13,050	11,770	14,520	699	5.3
Five	11,053	10,930	9,530	12,650	796	7.2
Total	38,062		35,153	40,971	1,484	3.9

Table E.11 Sample size and recaptures of Arctic grayling by section and date.

Date	One		Three		Five		Total	
	Sample	Recap.	Sample	Recap.	Sample	Recap.	Sample	Recap.
8/21/08	0	0	0	0	0	0	0	0
8/22/08	0	0	5	0	0	0	5	0
8/23/08	0	0	0	0	0	0	0	0
8/24/08	0	0	3	0	0	0	3	0
8/25/08	0	0	0	0	2	0	2	0
8/26/08	0	0	0	0	5	0	5	0
8/27/08	0	0	0	0	0	0	0	0
8/28/08	0	0	0	0	0	0	0	0
8/29/08	0	0	0	0	0	0	0	0
8/30/08	0	0	3	0	0	0	3	0
8/31/08	0	0	4	0	0	0	4	0
9/01/08	0	0	0	0	7	1	7	1
9/02/08	0	0	0	0	7	1	7	1
9/03/08	0	0	0	0	0	0	0	0
9/04/08	0	0	0	0	0	0	0	0
9/05/08	0	0	1	0	0	0	1	0
9/06/08	0	0	3	0	0	0	3	0
9/07/08	0	0	0	0	4	2	4	2
9/08/08	0	0	0	0	4	1	4	1
9/09/08	0	0	0	0	0	0	0	0
9/10/08	0	0	0	0	0	0	0	0
9/11/08	0	0	5	0	0	0	5	0
9/12/08	0	0	3	0	0	0	3	0
9/13/08	0	0	0	0	3	2	3	2
9/14/08	0	0	0	0	4	0	4	0
9/15/08	1	0	0	0	0	0	1	0
9/16/08	0	0	7	1	0	0	7	1
9/17/08	0	0	0	0	3	0	3	0
9/18/08	0	0	0	0	0	0	0	0
9/19/08	0	0	14	1	0	0	14	1
9/20/08	0	0	0	0	7	0	7	0
Total	1	0	48	2	46	7	95	9

Table E.12 Arctic grayling marks applied by section and date.

Date	One	Three	Five	Total
8/21/08	0.0	0.0	0.0	0
8/22/08	0.0	10.0	0.0	10
8/23/08	0.0	1.0	0.0	1
8/24/08	0.0	6.0	0.0	6
8/25/08	0.0	0.0	5.0	5
8/26/08	0.0	0.0	19.0	19
8/27/08	0.0	0.0	5.0	5
8/28/08	0.0	0.0	0.0	0
8/29/08	0.0	0.0	0.0	0
8/30/08	0.0	5.0	0.0	5
8/31/08	0.0	7.0	0.0	7
9/01/08	0.0	0.0	7.0	7
9/02/08	0.0	0.0	5.0	5
9/03/08	0.0	0.0	0.0	0
9/04/08	0.0	0.0	0.0	0
9/05/08	0.0	1.0	0.0	1
9/06/08	0.0	5.0	0.0	5
9/07/08	0.0	0.0	3.0	3
9/08/08	0.0	0.0	2.0	2
9/09/08	0.0	0.0	0.0	0
9/10/08	0.0	0.0	0.0	0
9/11/08	0.0	5.0	0.0	5
9/12/08	0.0	2.0	0.0	2
9/13/08	0.0	0.0	1.0	1
9/14/08	0.0	0.0	4.0	4
9/15/08	1.0	0.0	0.0	1
9/16/08	0.0	6.0	0.0	6
9/17/08	0.0	0.0	3.0	3
9/18/08	0.0	0.0	0.0	0
9/19/08	0.0	12.0	0.0	12
9/20/08	0.0	0.0	6.0	6
Total	1.0	60.0	60.0	121

Table E.13 Arctic grayling sample, cumulative marks available for recapture and recaptures by section.

Date	Sample	Marks	Recap.
Section Three:			
8/30/08	3	17	
8/31/08	4	17	
9/05/08	1	29	
9/06/08	3	29	
9/11/08	5	35	
9/12/08	3	35	
9/16/08	7	42	1
9/19/08	14	48	1
Section Five:			
9/01/08	7	29	1
9/02/08	7	29	1
9/07/08	4	41	2
9/08/08	4	41	1
9/13/08	3	46	2
9/14/08	4	46	
9/17/08	3	51	
9/20/08	7	54	

Table E.14 Population estimate by section for Arctic grayling.

Section	Bayes Mean	MLE	95% HPD		Standard Deviation	CV (%)
			Low	High		
Three	2,713	740	200	8,490	2,488	91.7
Five	312	231	123	582	131	42.1
Total	3,025	1090	430	8,690	2,492	82.4

Table E.15 Sample size and recaptures of bull trout by section and date.

Date	One		Three		Five		Total	
	Sample	Recap.	Sample	Recap.	Sample	Recap.	Sample	Recap.
8/21/08	1	0	0	0	0	0	1	0
8/22/08	0	0	2	0	0	0	2	0
8/23/08	0	0	1	0	0	0	1	0
8/24/08	0	0	1	0	0	0	1	0
8/25/08	0	0	0	0	0	0	0	0
8/26/08	0	0	0	0	0	0	0	0
8/27/08	0	0	0	0	0	0	0	0
8/28/08	0	0	0	0	0	0	0	0
8/29/08	0	0	0	0	0	0	0	0
8/30/08	0	0	4	1	0	0	4	1
8/31/08	0	0	9	0	0	0	9	0
9/01/08	0	0	0	0	6	0	6	0
9/02/08	0	0	0	0	3	0	3	0
9/03/08	2	0	0	0	0	0	2	0
9/04/08	2	0	0	0	0	0	2	0
9/05/08	0	0	3	2	0	0	3	2
9/06/08	0	0	6	1	0	0	6	1
9/07/08	0	0	0	0	3	0	3	0
9/08/08	0	0	0	0	4	0	4	0
9/09/08	0	0	0	0	0	0	0	0
9/10/08	1	0	0	0	0	0	1	0
9/11/08	0	0	4	3	0	0	4	3
9/12/08	0	0	7	1	0	0	7	1
9/13/08	0	0	0	0	8	3	8	3
9/14/08	0	0	0	0	0	0	0	0
9/15/08	11	1	0	0	0	0	11	1
9/16/08	0	0	17	5	0	0	17	5
9/17/08	0	0	0	0	11	1	11	1
9/18/08	4	1	0	0	0	0	4	1
9/19/08	0	0	19	6	0	0	19	6
9/20/08	0	0	0	0	5	2	5	2
Total	21	2	73	19	40	6	134	27

Table E.16 Bull trout marks applied by section and date.

Date	One	Three	Five	Total
8/21/08	0.8	0.2	0.0	1
8/22/08	0.0	6.0	0.0	6
8/23/08	0.0	3.0	0.0	3
8/24/08	0.8	9.2	0.0	10
8/25/08	0.0	0.0	1.0	1
8/26/08	0.0	0.0	3.0	3
8/27/08	0.0	0.0	2.0	2
8/28/08	0.8	0.2	0.0	1
8/29/08	0.8	0.2	0.0	1
8/30/08	0.0	6.0	0.0	6
8/31/08	0.0	10.0	0.0	10
9/01/08	0.0	0.0	6.0	6
9/02/08	0.0	0.0	2.0	2
9/03/08	1.6	0.4	0.0	2
9/04/08	1.6	0.4	0.0	2
9/05/08	0.0	3.0	0.0	3
9/06/08	0.0	7.0	0.0	7
9/07/08	0.0	0.0	5.0	5
9/08/08	0.0	0.0	4.0	4
9/09/08	0.0	0.0	0.0	0
9/10/08	0.8	0.2	0.0	1
9/11/08	0.0	3.0	0.0	3
9/12/08	0.0	6.0	0.0	6
9/13/08	0.0	0.0	5.0	5
9/14/08	0.0	0.0	0.0	0
9/15/08	8.5	2.5	0.0	11
9/16/08	0.0	14.0	0.0	14
9/17/08	0.0	0.0	10.0	10
9/18/08	2.3	0.7	0.0	3
9/19/08	0.0	15.0	0.0	15
9/20/08	0.0	0.0	3.0	3
Total	17.9	87.1	41.0	146

Table E.17 Bull trout sample, cumulative marks available for recapture and recaptures by section.

Date	Sample	Marks	Recap.
Section One:			
9/03/08	2	3	
9/04/08	2	3	
9/10/08	1	6	
9/15/08	11	7	1
9/18/08	4	16	1
Section Three:			
8/24/08	1		
8/30/08	4	18	1
8/31/08	9	19	
9/05/08	3	35	2
9/06/08	6	35	1
9/11/08	4	46	3
9/12/08	7	46	1
9/16/08	17	55	5
9/19/08	19	71	6
Section Five:			
9/01/08	6	6	
9/02/08	3	6	
9/07/08	3	14	
9/08/08	4	14	
9/13/08	8	23	3
9/17/08	11	28	1
9/20/08	5	38	2

Table E.18 Population estimates by section for bull trout.

Section	Bayes Mean	MLE	95% HPD		Standard Deviation	CV (%)
			Low	High		
One	386	78	20	1,466	487	126.0
Three	198	180	128	284	42	21.0
Five	196	136	68	392	100	51.2
Total	780	484	322	1,022	498	63.9

Appendix E. Figures

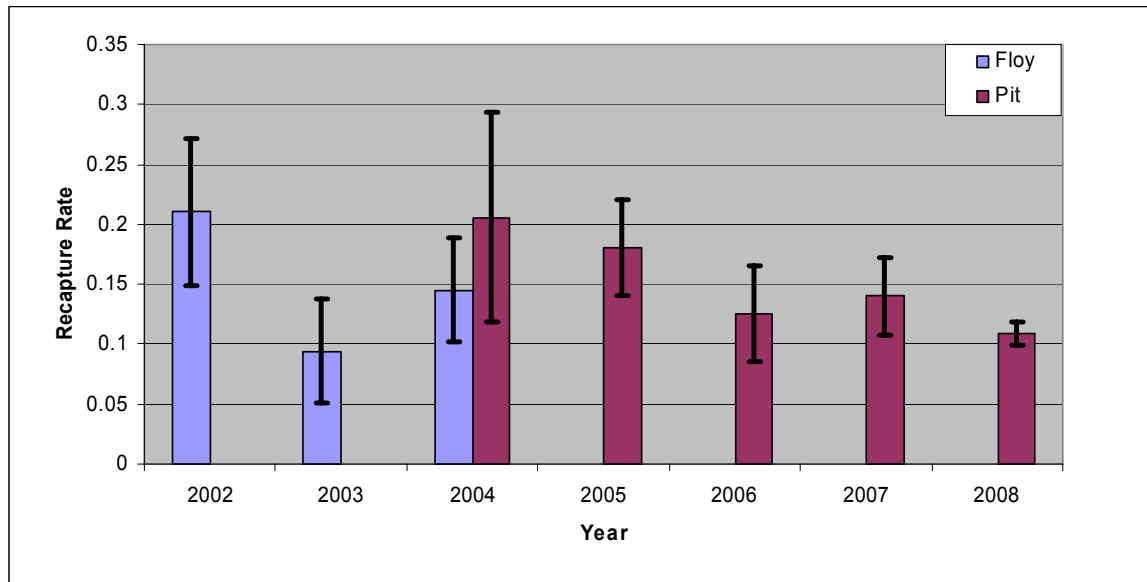


Figure E.1 Recapture rate by tag type and year of release for mountain whitefish.

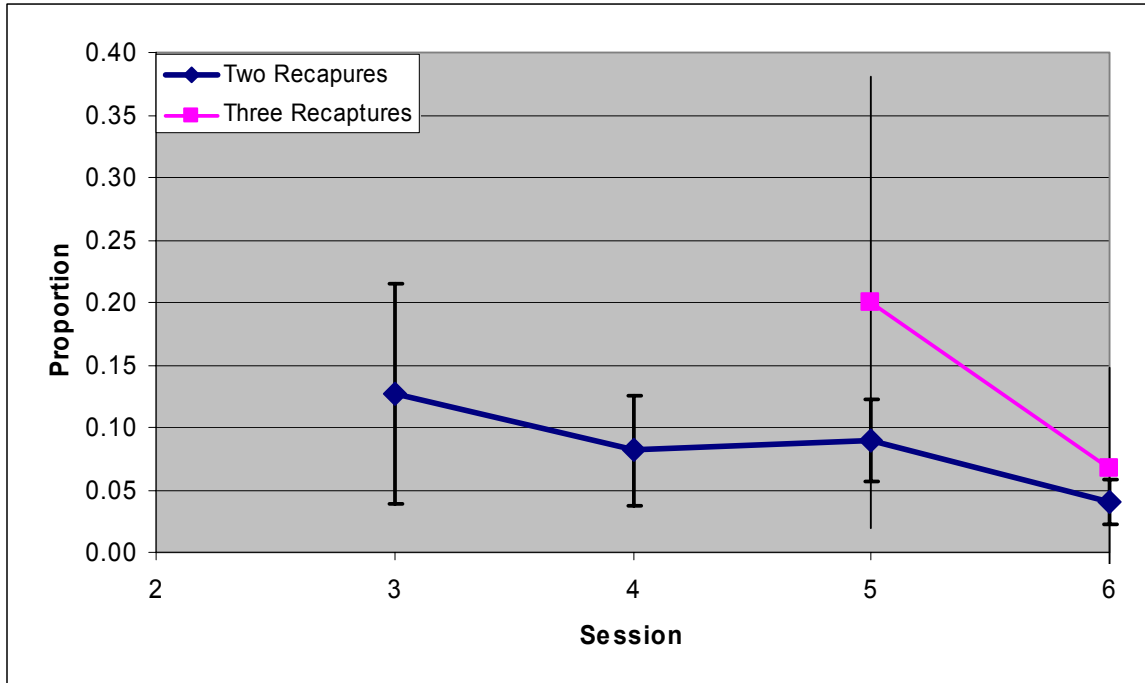


Figure E.2 Proportion of mountain whitefish recaptured two and three times by sampling session. Error bars represent the 95% confidence interval assuming a multinomial distribution.

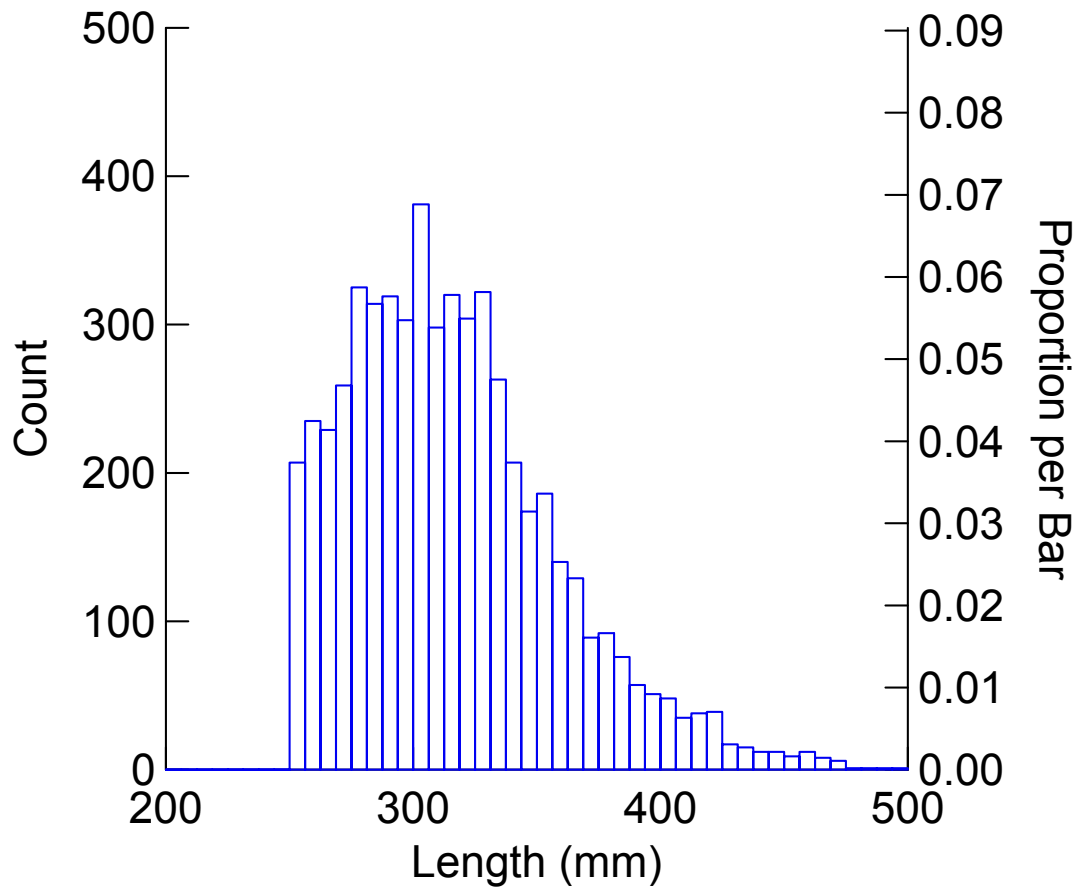


Figure E.3 Histogram of mountain whitefish lengths at release.

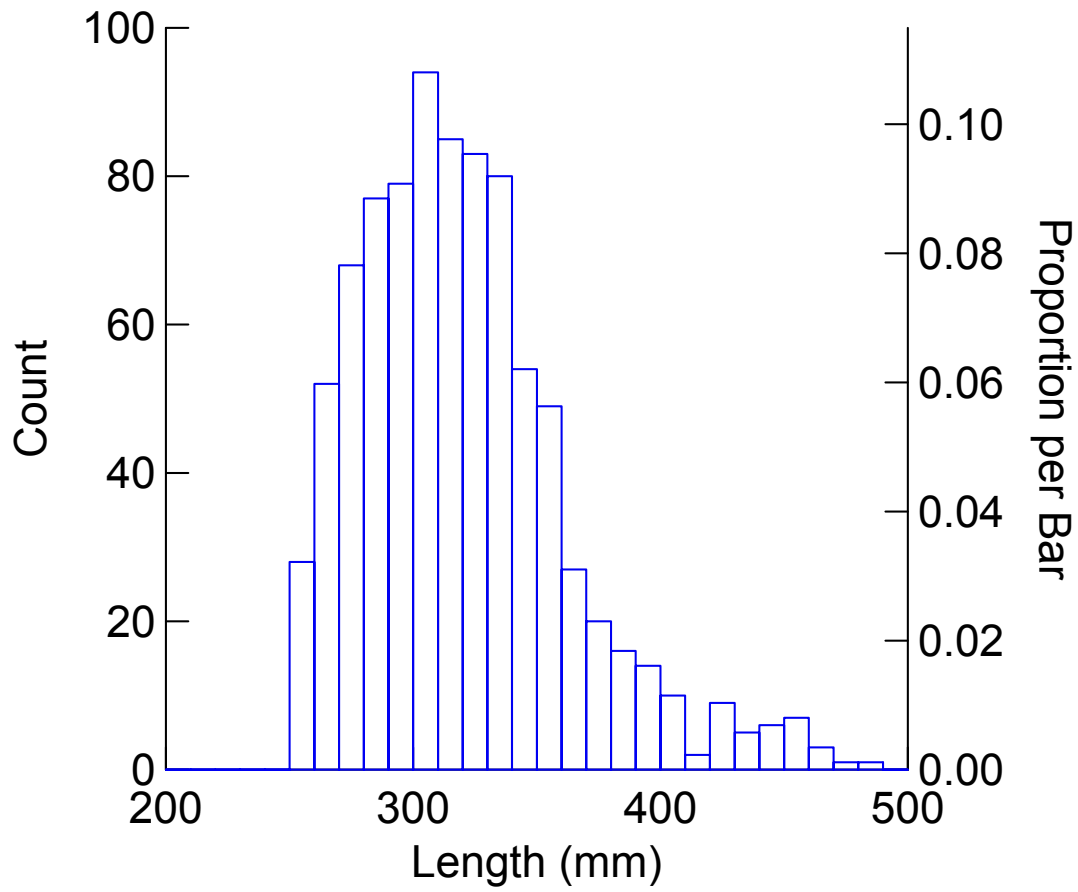


Figure E.4 Histogram of mountain whitefish lengths at recapture.

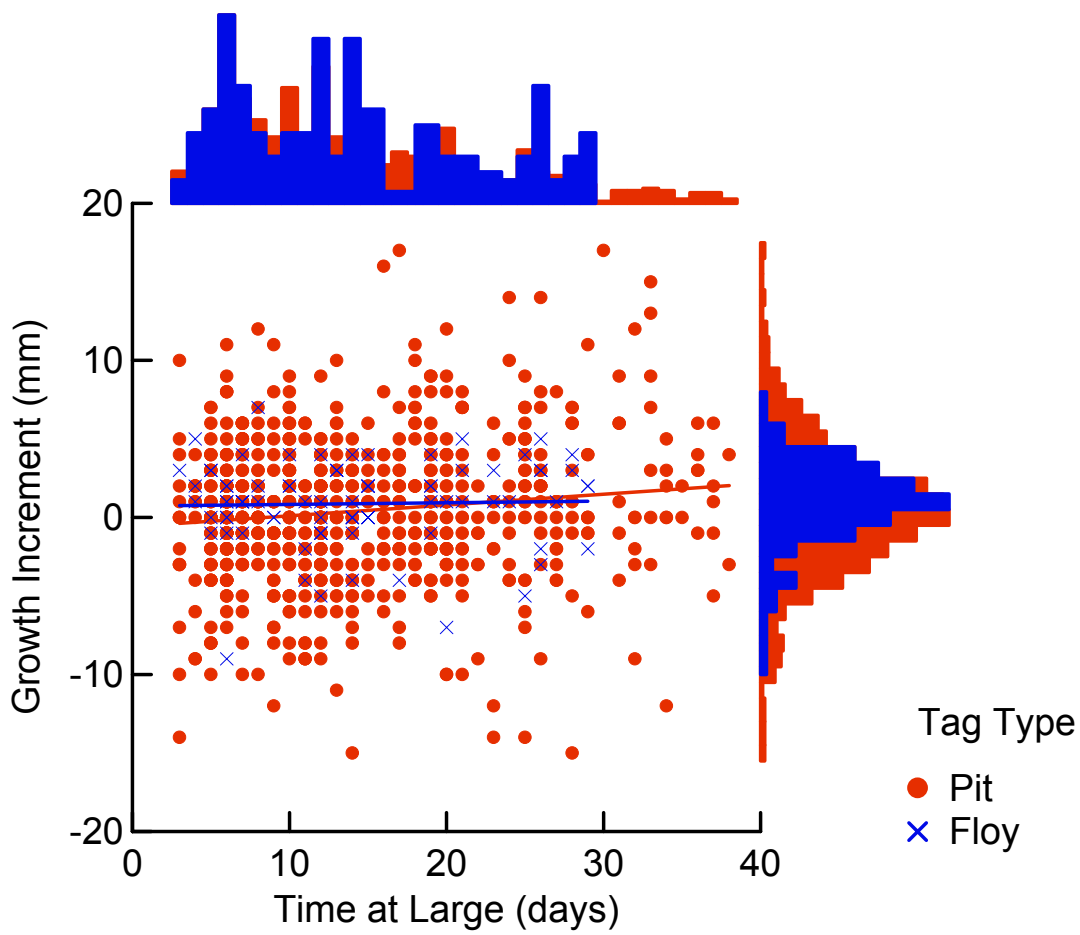


Figure E.5 Growth over the study period of mountain whitefish with border histograms of time at large and growth increment by tag type.

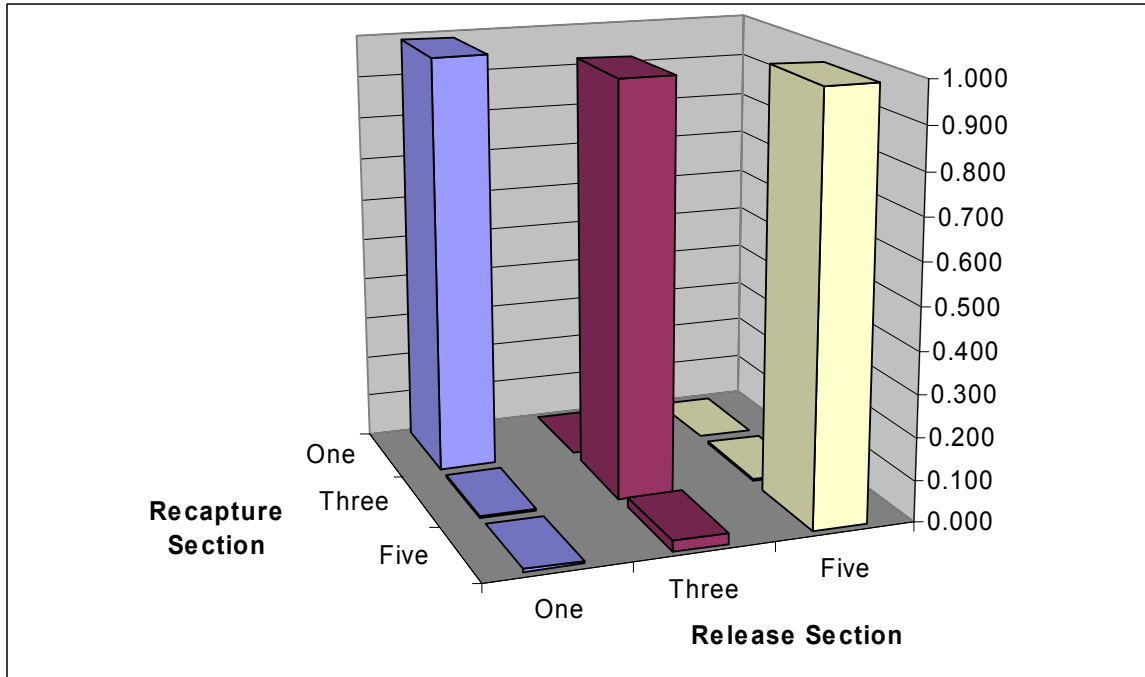


Figure E.6 Distribution of recaptured marks released in 2008 standardized for sampling effort by section of release for mountain whitefish.

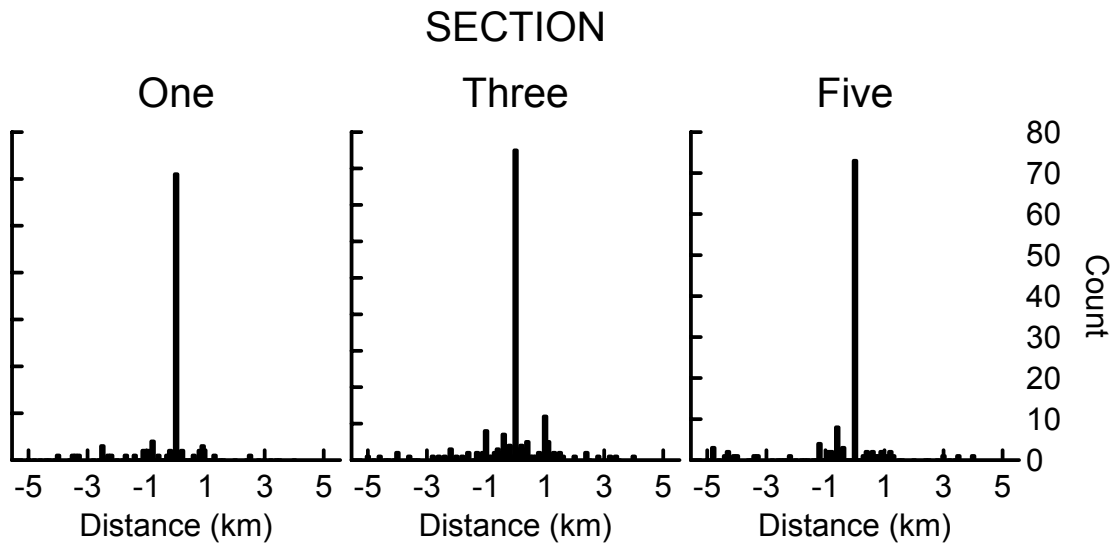


Figure E.7 Bar plot of the travel distance of recaptured mountain whitefish released in 2008 within each of the sections sampled (positive values indicate upstream movement and negative values downstream movement).

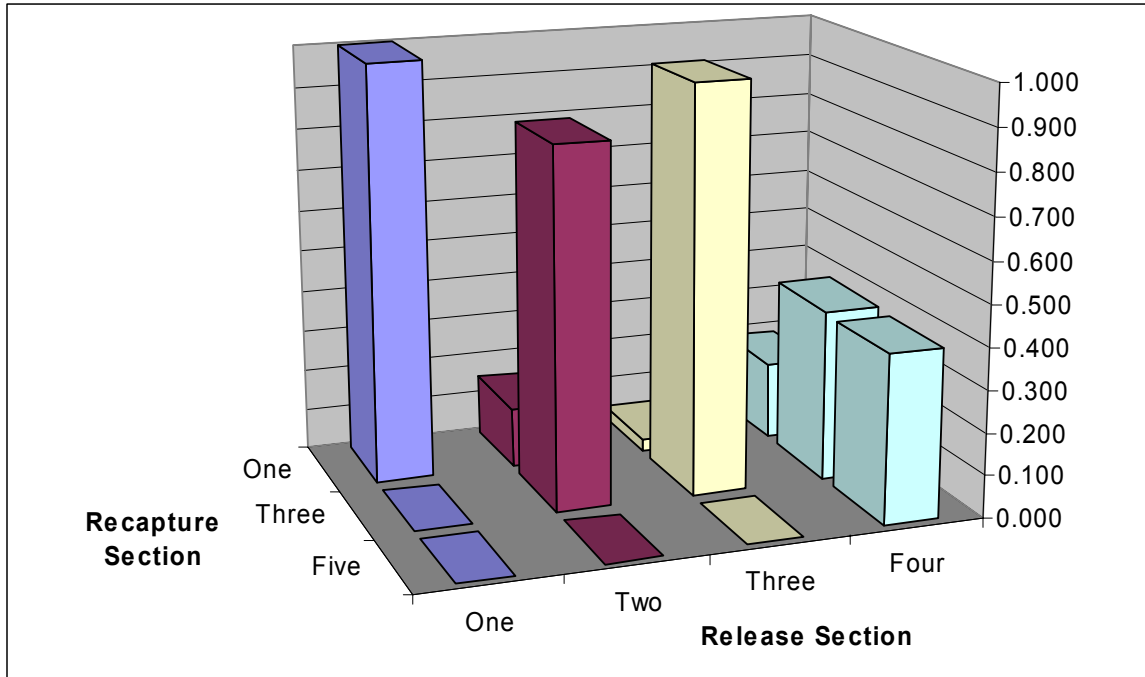


Figure E.8 Distribution of recaptured marks in 2008 standardized for sampling effort by section of release for mountain whitefish released in 2002.

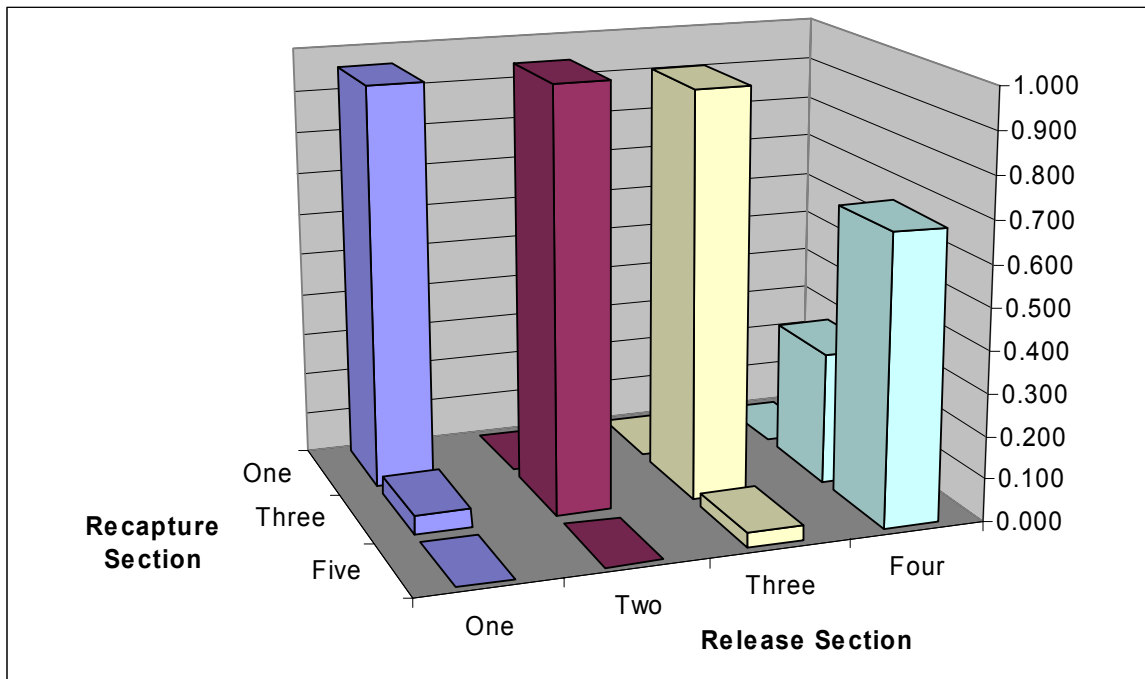


Figure E.9 Distribution of recaptured marks in 2008 standardized for sampling effort by section of release for mountain whitefish released in 2003.

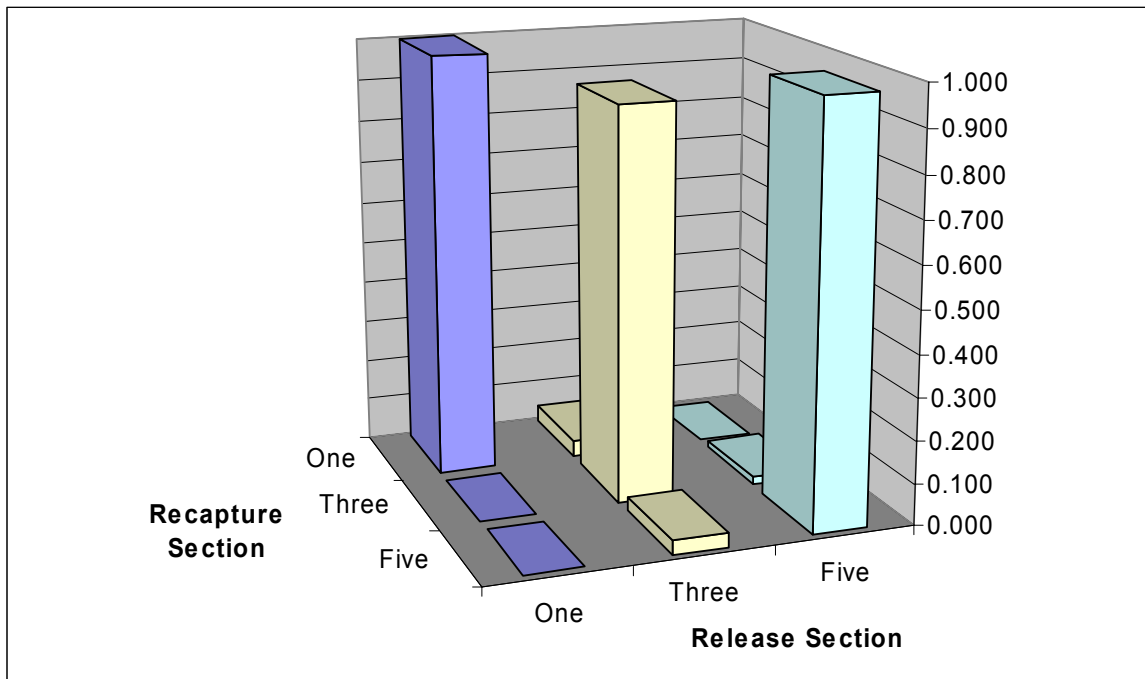


Figure E.10 Distribution of recaptured marks in 2008 standardized for sampling effort by section of release for mountain whitefish released in 2004.

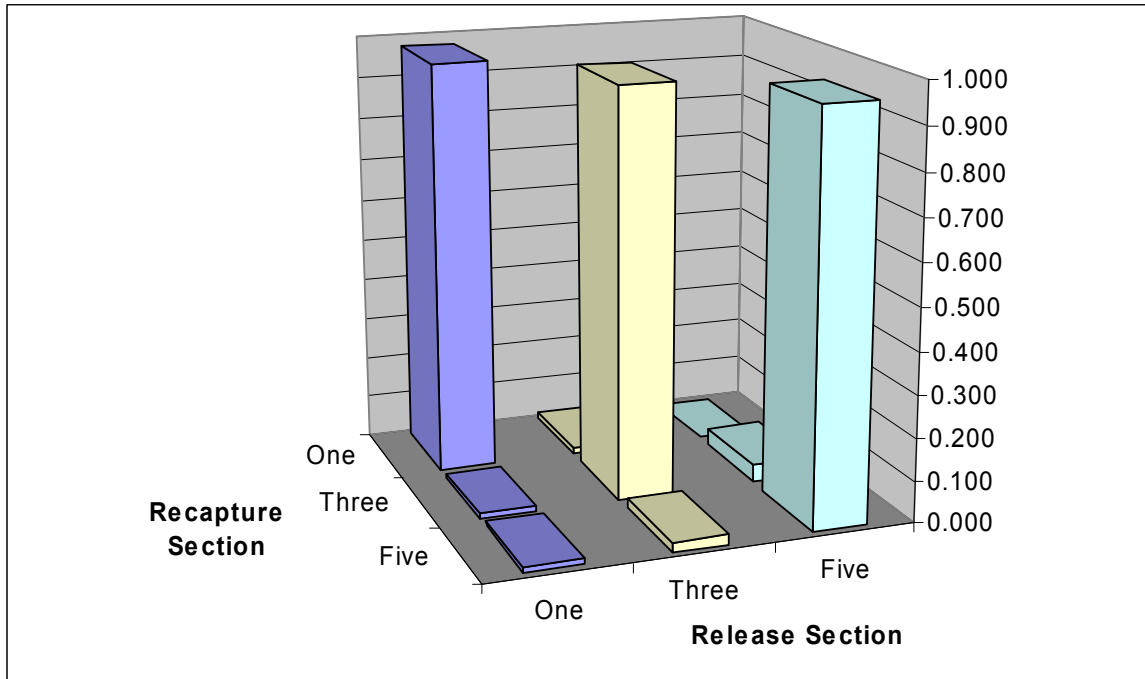


Figure E.11 Distribution of recaptured marks in 2008 standardized for sampling effort by section of release for mountain whitefish released in 2005.

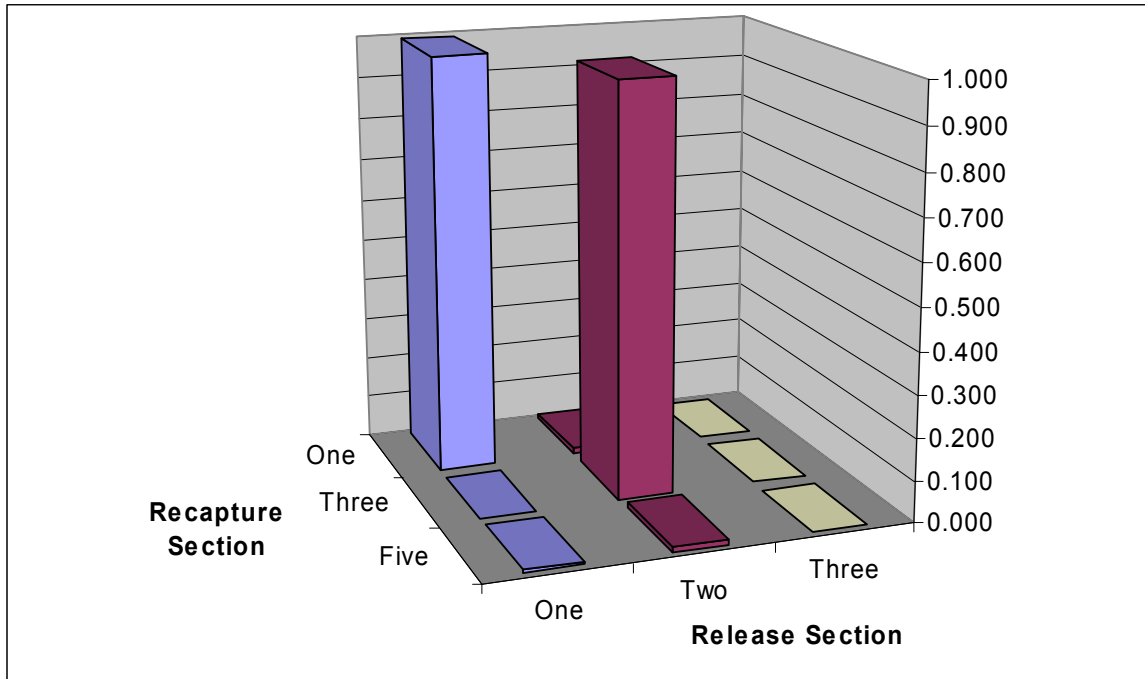


Figure E.12 Distribution of recaptured marks in 2008 standardized for sampling effort by section of release for mountain whitefish released in 2006.

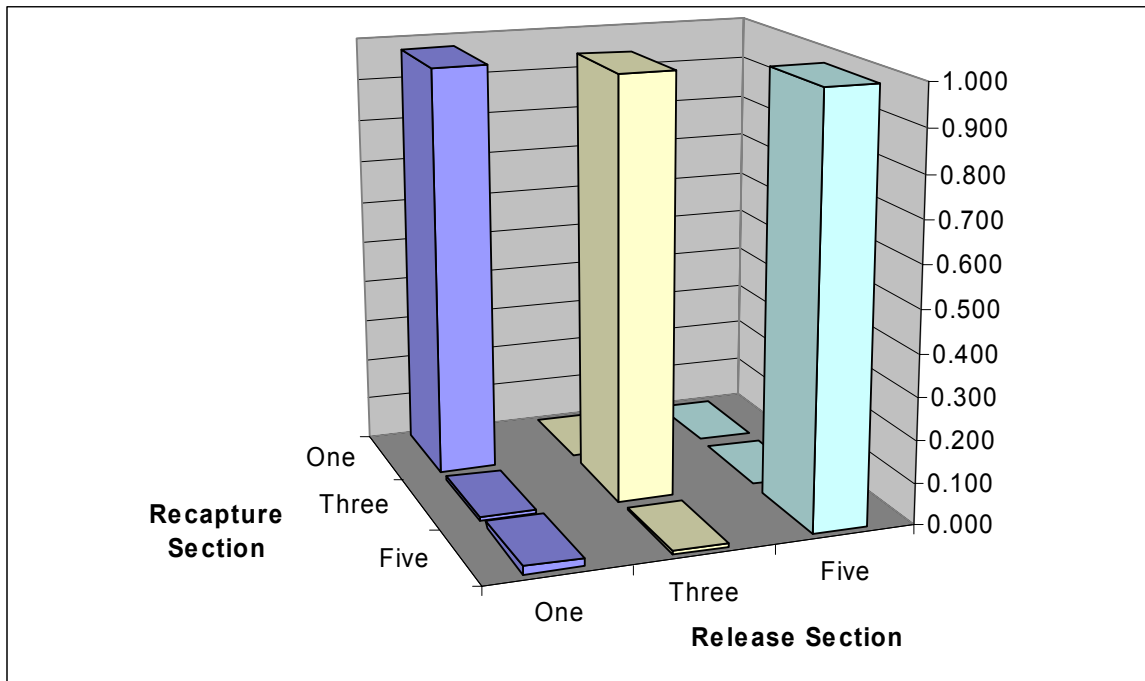


Figure E.13 Distribution of recaptured marks in 2008 standardized for sampling effort by section of release for mountain whitefish released in 2007.

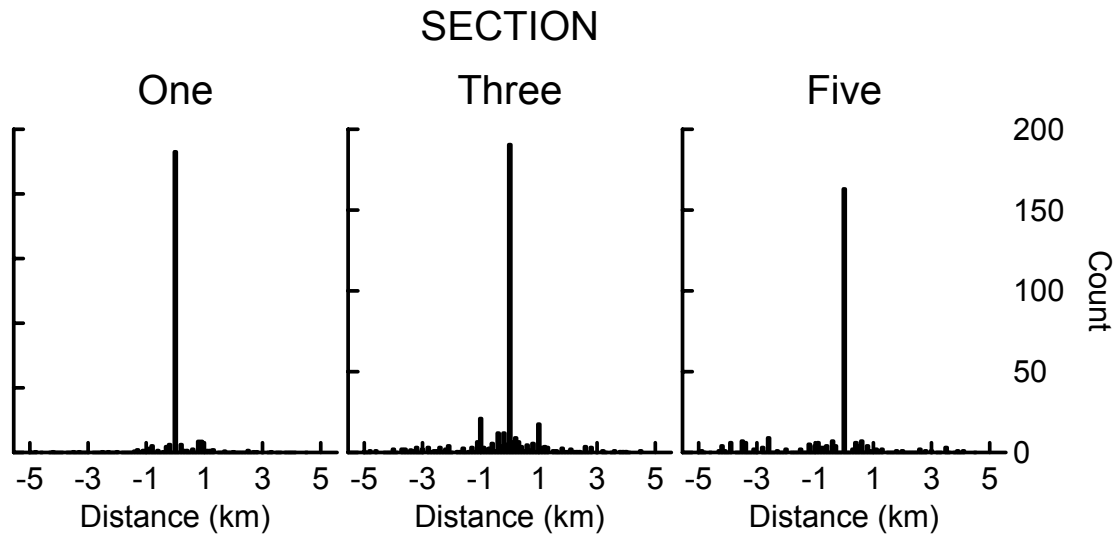


Figure E.14 Bar plot of the travel distance of recaptured mountain whitefish released from 2002 to 2007 within each of the sections sampled (positive values indicate upstream movement and negative values downstream movement) and captured in 2008.

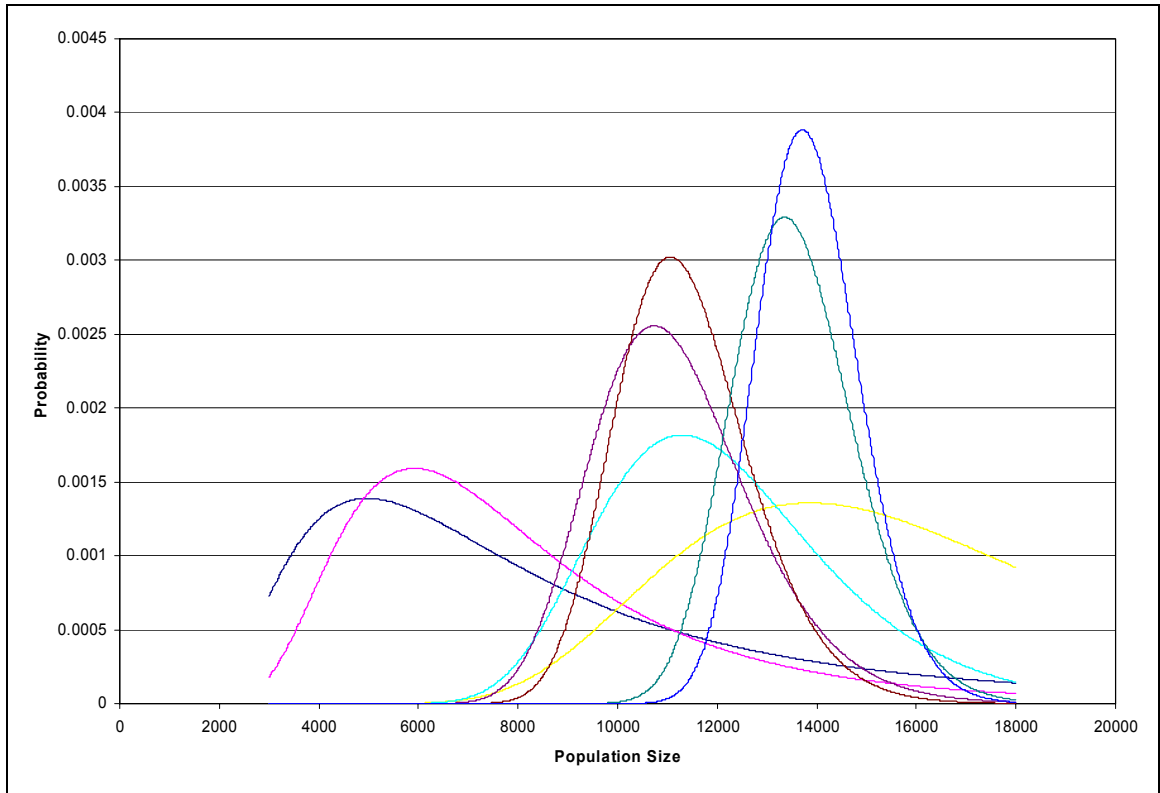


Figure E.15 Sequential posterior probability plots of population size for Section One mountain whitefish in 2008.

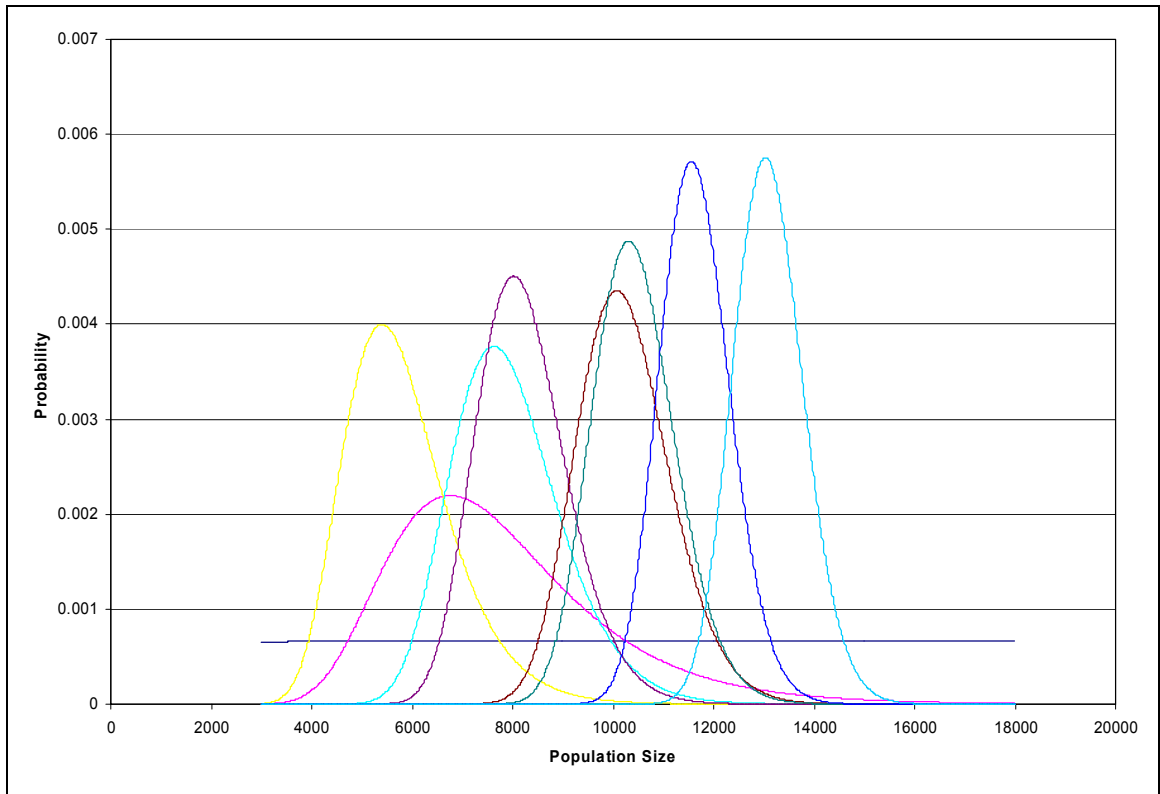


Figure E.16 Sequential posterior probability plots of population size for Section Three mountain whitefish in 2008.

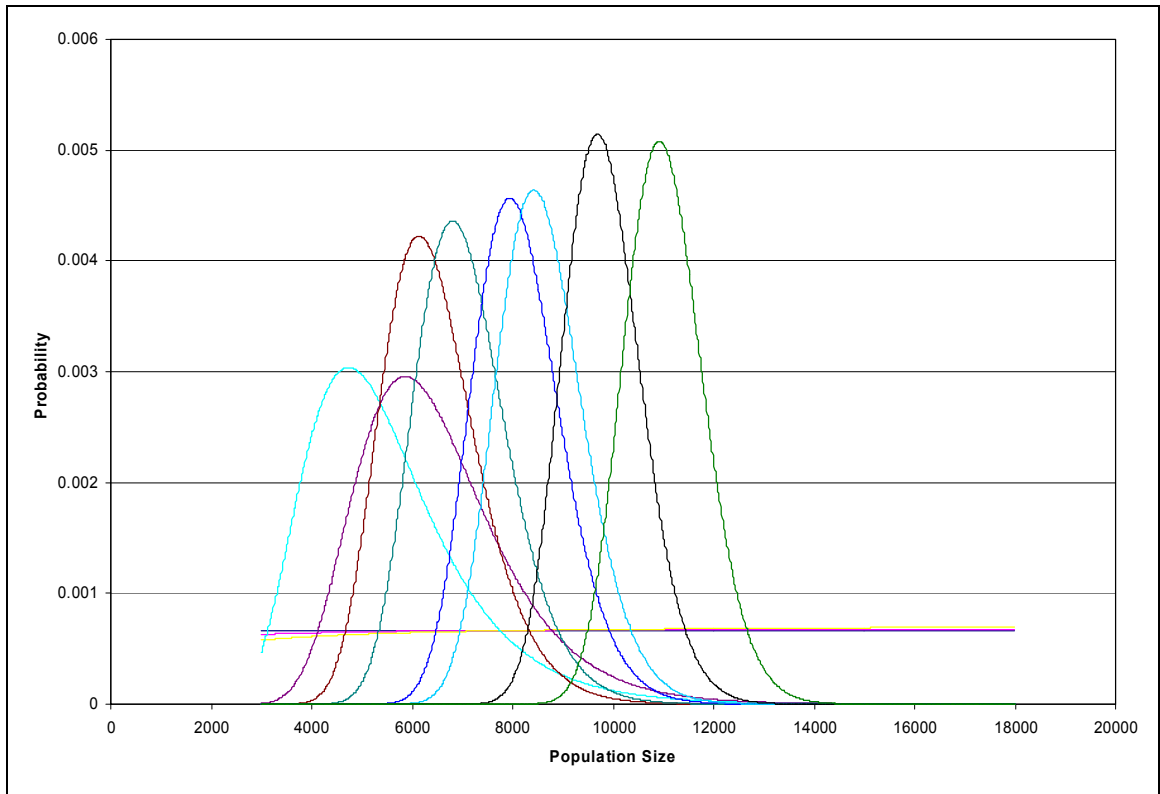


Figure E.17 Sequential posterior probability plots of population size for Section Three mountain whitefish in 2008.

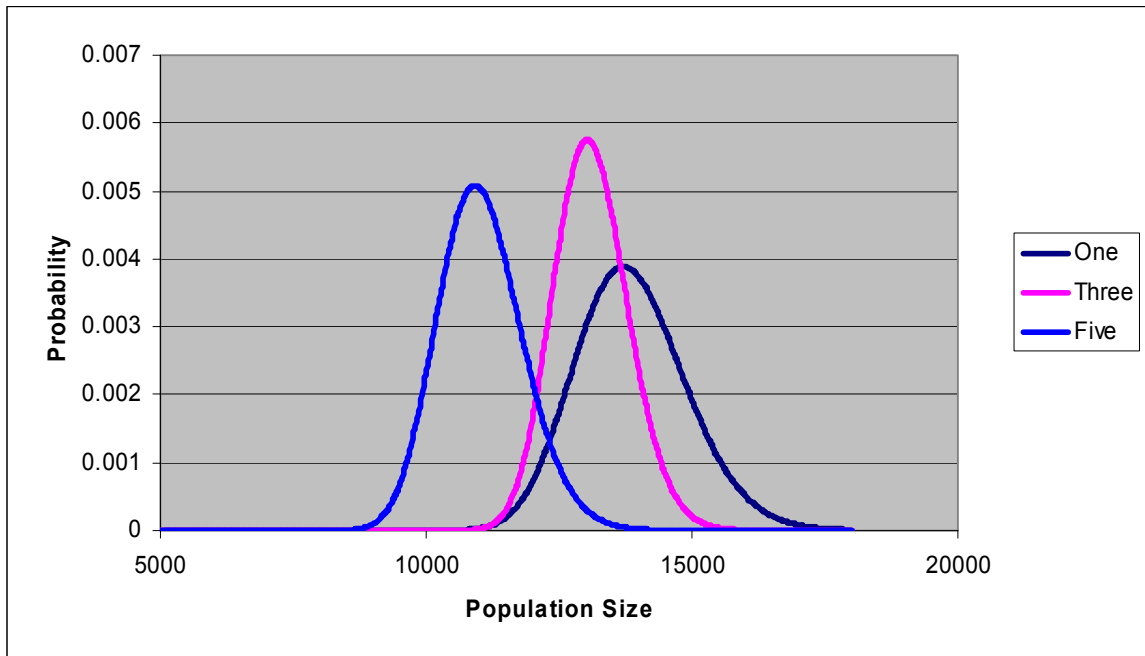


Figure E.18 Final posterior distributions by section for mountain whitefish.

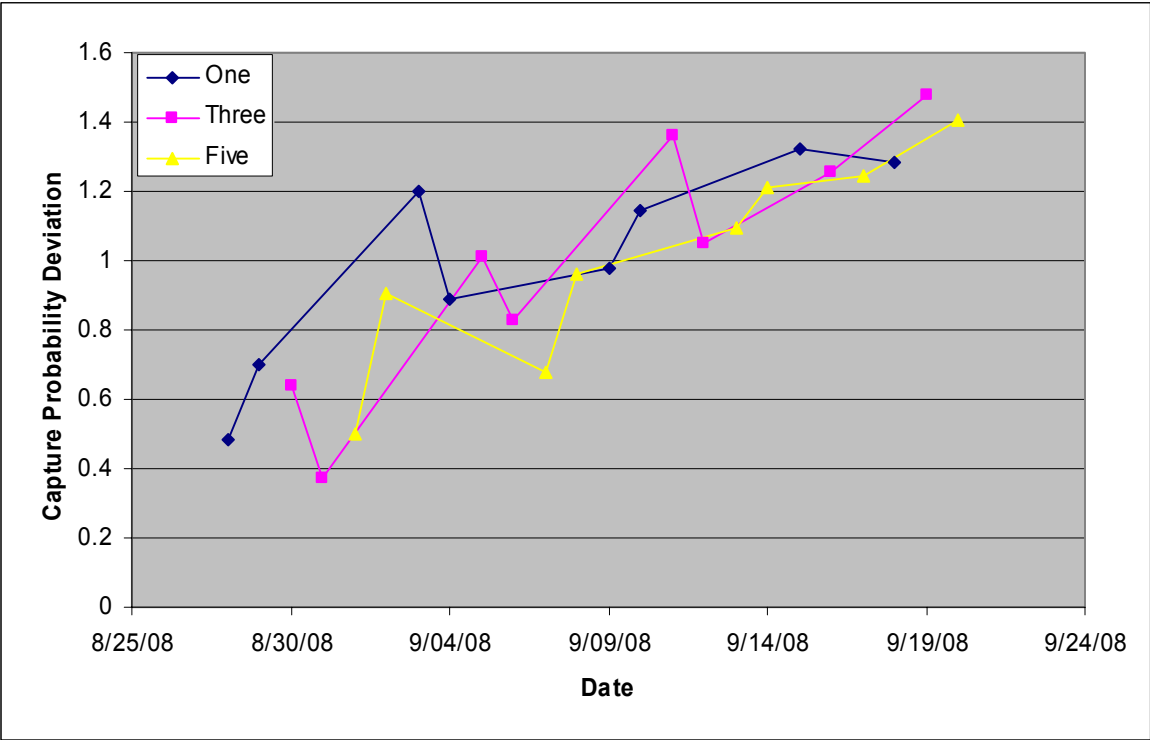


Figure E.19 Capture probability deviation from the mean by section and date for mountain whitefish.

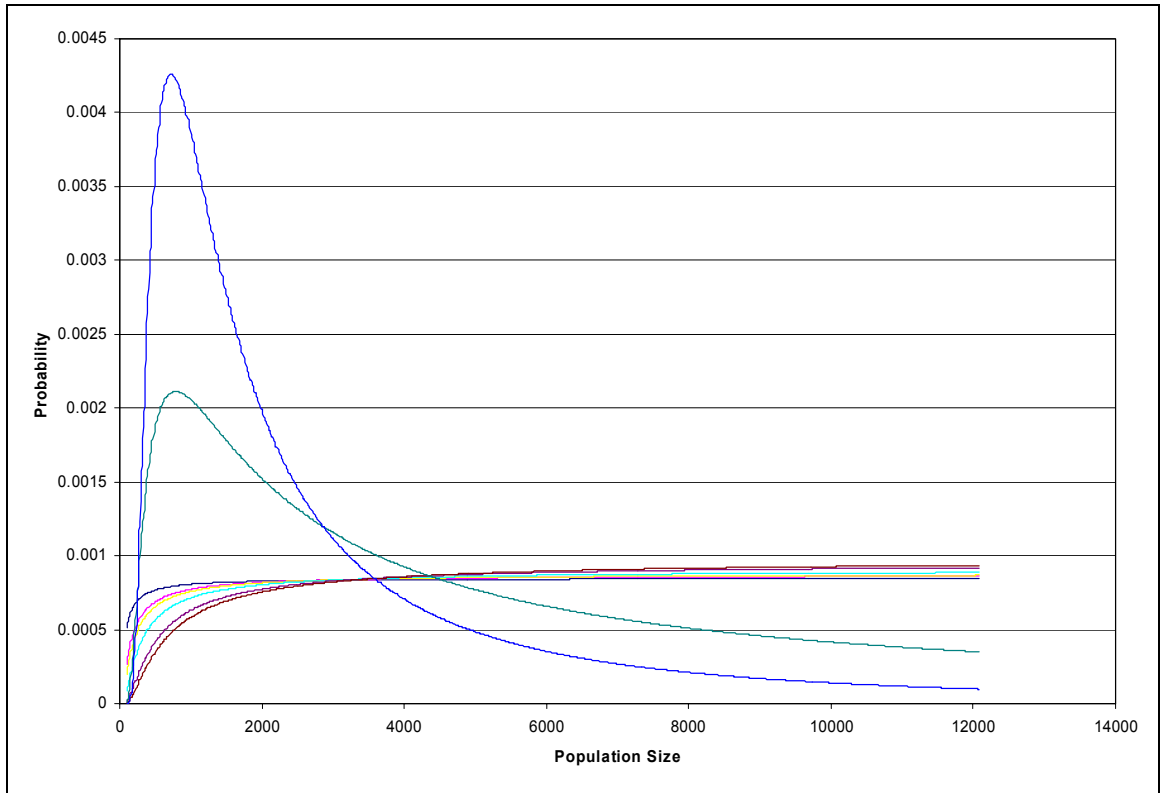


Figure E.20 Sequential posterior probability plots of population size for Section Three Arctic grayling in 2008.

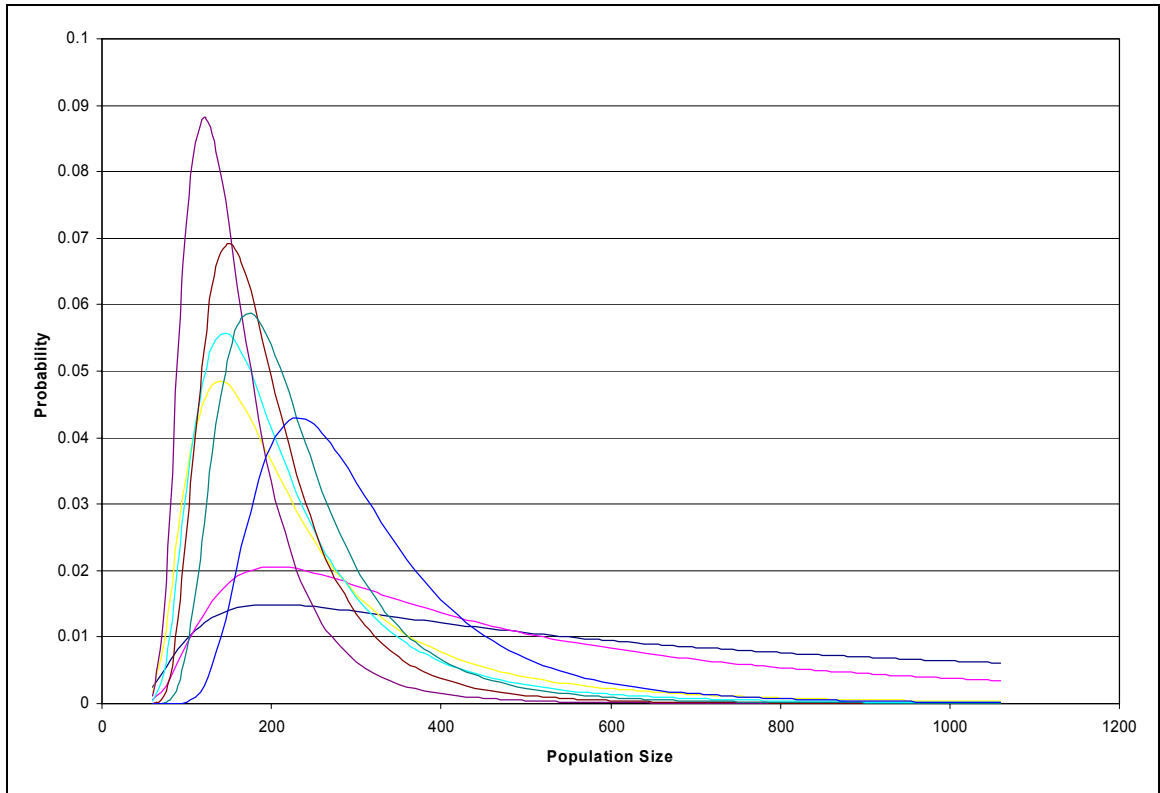


Figure E.21 Sequential posterior probability plots of population size for Section Three Arctic grayling in 2008.

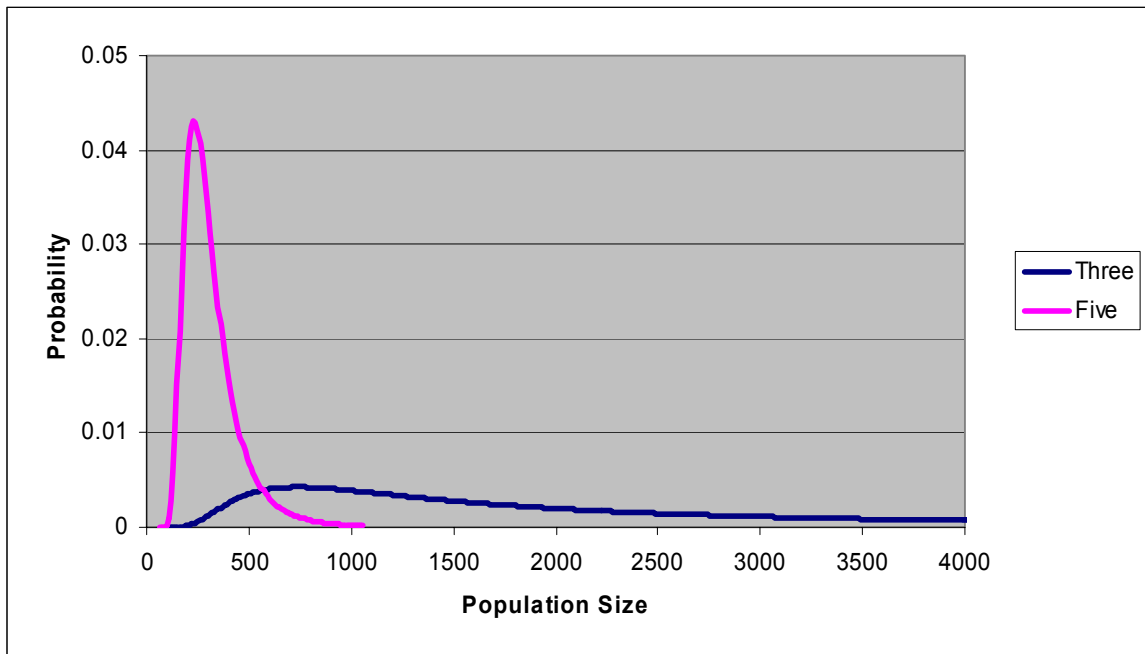


Figure E.22 Final posterior distribution by section for arctic grayling.

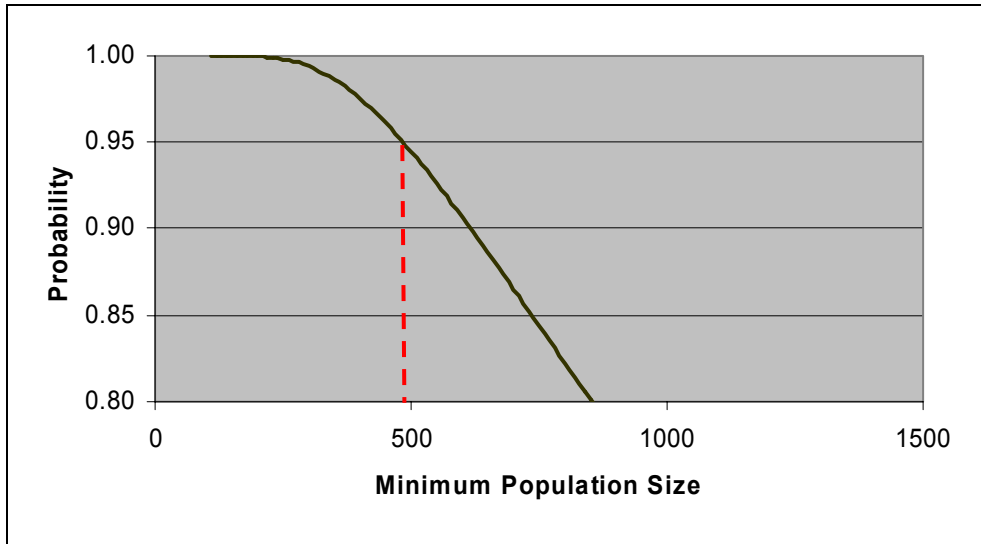


Figure E.23 Minimal population estimates for Arctic grayling in Section Three.

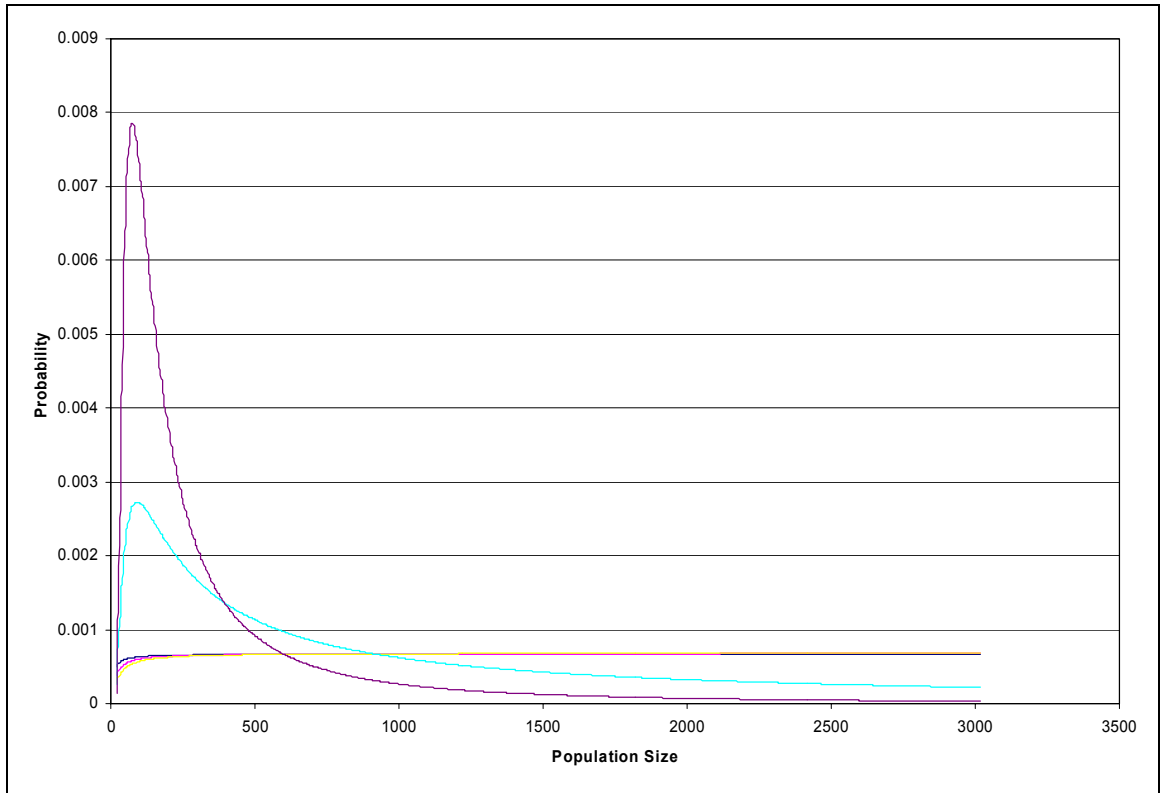


Figure E.24 Sequential posterior probability plots of population size for Section One bull trout in 2008.

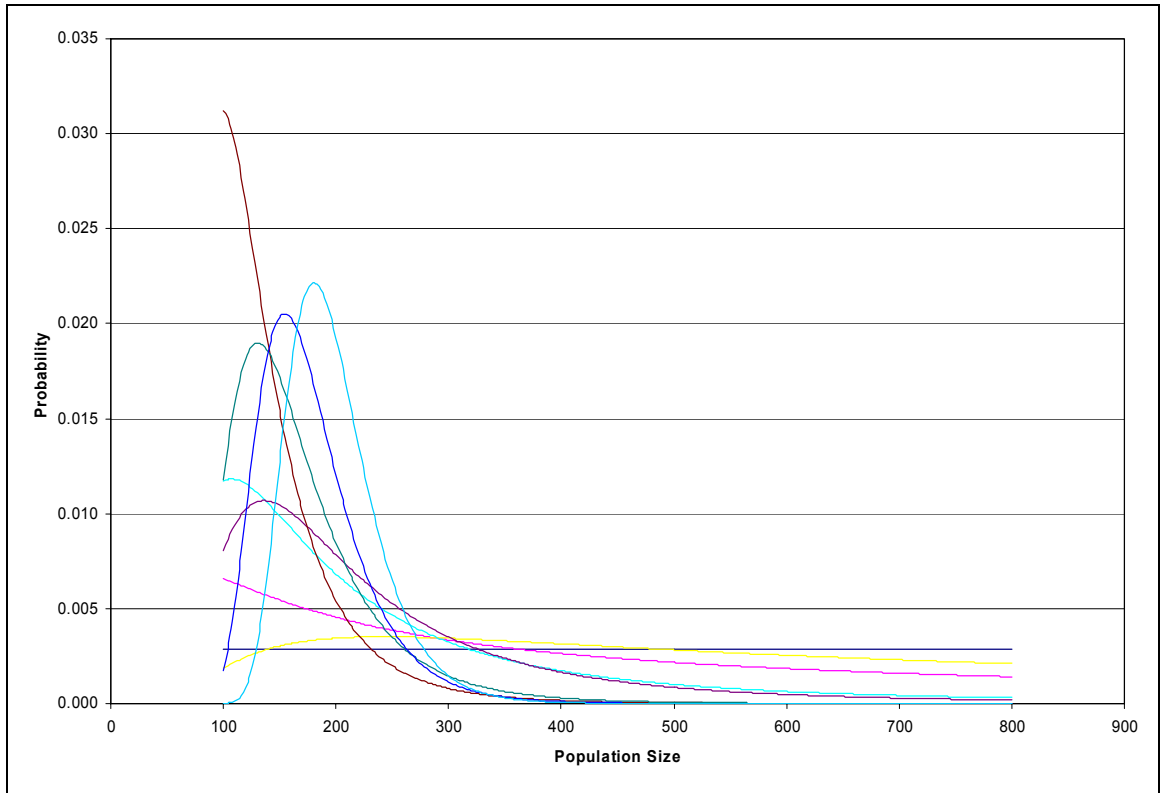


Figure E.25 Sequential posterior probability plots of population size for Section Three bull trout in 2008.

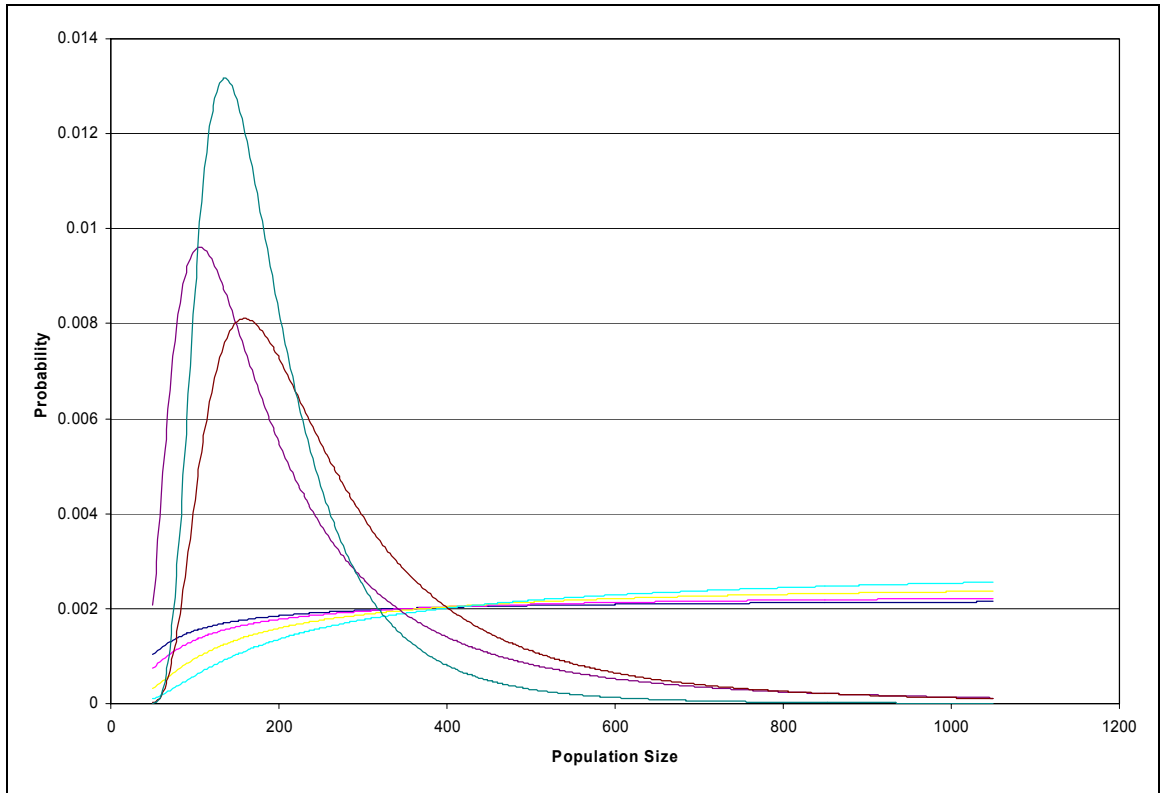


Figure E.26 Sequential posterior probability plots of population size for Section Five bull trout in 2008.

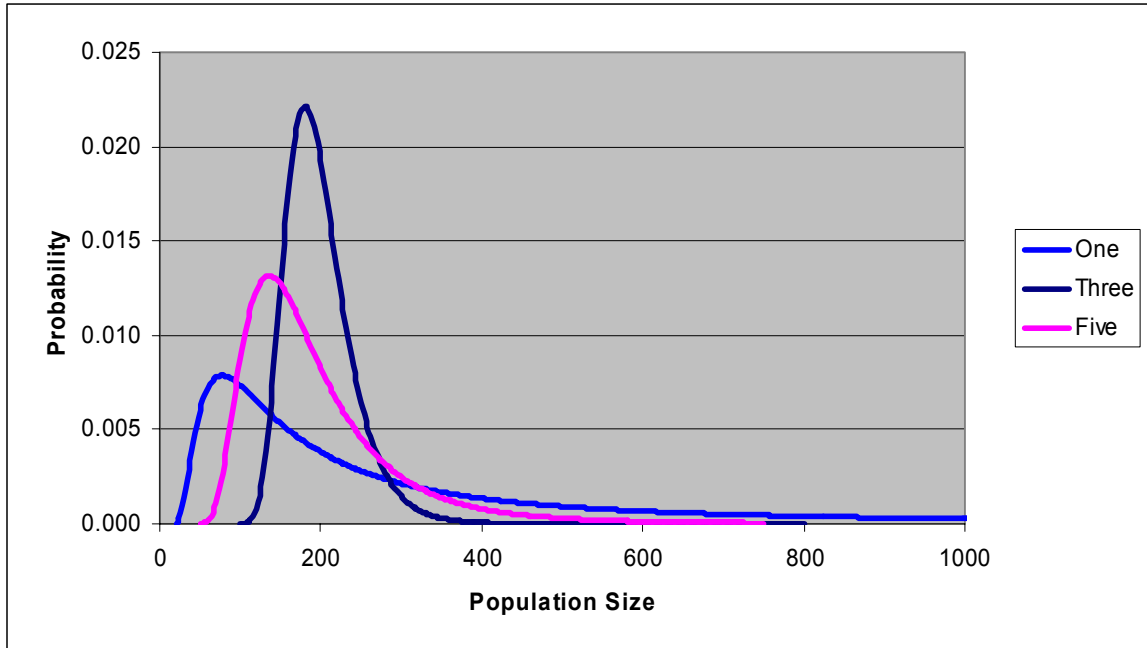


Figure E.27 Final posterior distribution by section for bull trout.

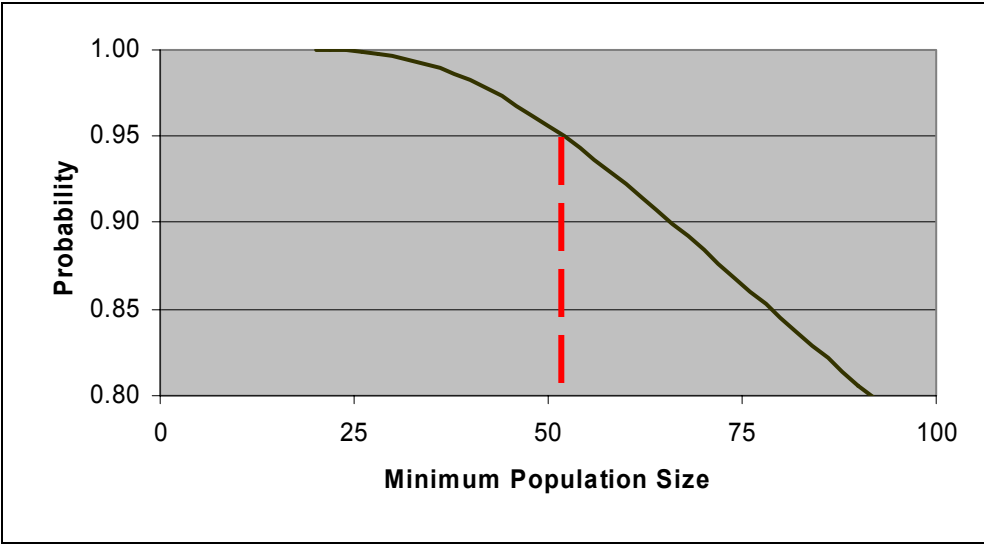


Figure E.28 Minimal population estimates for bull trout in Section One.

Appendix F
Age Structured Mark-Recapture Model

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APPENDIX F

CONCEPTUAL AGE STRUCTURED MARK-RECAPTURE MODEL

Introduction

This appendix rigorously describes a proposed age-structured mark-recapture (ASMR) model to monitor mountain whitefish in the Peace River. The model is one of many feasible implementations. Specifically, this model employs forward population projection such that direct estimates of recruitment to the youngest age-class are made. Only a single river section is considered without inter-annual migration into and out of the study area. Furthermore, an additional stratum for tag type (Floy and pit) is not introduced. If Floy marked fish are removed from the length frequency, length-at-age, mark-recapture length and age-class composition data, then the model described here assumes that any additional mortality imposed by the Floy mark has minimal impact on the population level survival.

The notation used to describe the model and related objective function presented below is provided in Table F.1. The variables are organized into indices, data and associated descriptors (any combinations of same), fundamental parameters to be estimated, logged probability density functions and interim variables (some combination of data and fundamental parameters) used to clarify model description or of interest to the user.

Model Definition

The purpose of this section is to describe the methods used to predict the probability of a fish belonging to a length interval, the expected capture and recapture of unmarked and marked fish, expected abundance, and expected age-class composition based on the fundamental parameters to be estimated. The main assumptions are:

1. The trend of mountain whitefish in growth tracks a von Bertalanffy curve.
2. Age dependent survival is based on the Lorenzen model (Lorenzen 2000).
3. The length-frequency data consist of A age classes.
4. The oldest age-class, A , represents all older fish.
5. Mountain whitefish are fully vulnerable to electro-fishing at age-class A^* .
6. The lengths in each age-class are normally distributed around their mean length.
7. All fish in a stratum (year-section), whether marked or unmarked, have the same probability of being caught.
8. All marks are reported on recovery.

Growth

A customary approach is to assume a von Bertalanffy growth curve. Mean length by age h (l_h) is then (as parameterized by Schnute and Fournier 1980),

$$(F.1) \quad l_h = \mu_1 + (\mu_A - \mu_1) \frac{1 - \exp[-K(h-1)]}{1 - \exp[-K(h_A - 1)]} + \Delta l_h ,$$

where h_A is the age of the oldest age class, μ_1 , and μ_A are the mean lengths at the youngest and oldest age classes. Note that there are two indices tracking time related variables: h for age and a for age-class, which are related by $h = a + h_1 - 1$ where h_1 is the age of the youngest age-class. The additive length deviation, Δl_h , depicts annual departures from the length trend. Equation (F.1) is considerably more complicated than the usual von Bertalanffy expression; however, the extreme extrapolation of asymptotic length (L_∞) and time of zero length (t_0) are avoided with attendant improvement in the estimation properties (Ratkowsky 1986).

Survival

Following Lorenzen (2000) and Coggins et al. (2006), an age-dependent survival function was based on von Bertalanffy growth such that mortality decreases with size and age until an instantaneous rate of Z is reached at the asymptotic length, that is,

$$(F.2) \quad S_a = \left[\frac{\exp[K(a + h_1 - 1)] - 1}{\exp K[a + h_1] - 1} \right]^{Z/K} ,$$

where S_a is the age-dependent survival for age-class a .

Initialize First Year

The model developed here is a forward propagation approach in order to provide direct estimates of fish joining the sampled population each year (recruitment). Therefore, the boundary condition of fish occupying the age-classes in the first year must be specified. The approach taken here treats the initial year like a cohort under a stable age-distribution, that is,

$$(F.3) \quad U_{11} = R_1 ,$$

$$(F.4) \quad U_{a+1,1} = S_a U_{a1} \text{ for } a = 1, 2, \dots, A-2,$$

$$(F.5) \quad U_{A1} = \frac{S_{A-1}U_{A-1,1}}{1-S_{A-1}}, \text{ and}$$

$$(F.6) \quad M_{a1} = 0 \text{ for } a = 1, 2, \dots, A.$$

At the time of the first sample year, equation (F.3) seeds the number of unmarked fish in age-class 1 and year 1 (U_{11}) to the recruitment in year 1 (R_1 , a fundamental parameter to be estimated and is of primary interest). For all other age-classes, with the exception of the absorbing terminal age-class, the unmarked fish in next age class ($U_{a+1,1}$) are updated by the age-dependent survival in equation (F.4). All fish in age class A and older are assumed to be subject to the same mortality processes forever (see equation F.5). No marked fish are available for recapture in the first sample year (see equation F.6).

Update Marked and Unmarked

The age composition for each year was adjusted for selectivity for age-classes less than A^* (assumed to be fully vulnerable when at age-class of A^* and older). Also deviations (errors) in age (Δp_i) were included in the computation of the proportion of age-class- a red snapper in year (p_{at}), that is,

$$(F.7) \quad p_{at} = \frac{s_{at}(M_{at} + U_{at})}{\sum_a s_{at}(M_{at} + U_{at})},$$

where

$$s_{at} = \begin{cases} \lambda_a \exp(\Delta p_{at}) & \text{if } a < A^* \text{ and } t < T \\ \exp(\Delta p_{at}) & \text{if } A^* \leq a < A \\ 1 & \text{otherwise,} \end{cases}$$

and where λ_a are the recruitment selectivity coefficients for $a < A^*$. Given the predicted age composition, the expected numbers of marked and unmarked fish beyond the first sample year (adjusted for partially vulnerable fish) can be updated by new recruits and newly marked fish (\tilde{m}_t , a subset of \tilde{u}_t) as follows:

$$(F.8) \quad U_{1,t+1} = R_{t+1} \quad \text{if } a = 1$$

$$(F.9) \quad U_{a+1,t+1} = S_a (U_{at} - \tilde{m}_t p_{at}) \quad \text{if } a < A - 2$$

$$(F.10) \quad M_{a+1,t+1} = S_a (M_{at} + \tilde{m}_t p_{at}) \quad \text{if } a < A - 2$$

$$(F.11) \quad U_{A,t+1} = S_a (U_{At} + U_{A-1,t} - \tilde{m}_t p_{A-1,t}) \quad \text{if } a = A - 1$$

$$(F.12) \quad M_{A,t+1} = S_a (M_{At} + M_{A-1,t} + \tilde{m}_t p_{A-1,t}) \quad \text{if } a = A - 1$$

Expected Capture

The annual expected capture of unmarked fish (u_t) and recapture of marked fish (r_t) is computed as the product with the capture probability (c_t) and the sum of all available fish in the unmarked or marked categories, that is,

$$(F.13) \quad u_t = c_t \sum_a U_{at} ,$$

$$(F.14) \quad r_t = c_t \sum_a M_{at} ,$$

where

$$c_t = \frac{\tilde{u}_t + \tilde{r}_t}{\sum_a (U_{at} + M_{at})} ,$$

and where \tilde{u}_t is the number of unmarked fish captured and \tilde{r}_t is the number of marked fish recaptured in year t . Note that this formulation of the capture probability is the conditional maximum likelihood estimate (Coggins et al. 2006).

Expected Length Frequency

The lengths of fish in each age class are assumed to be normally distributed and, following Fournier et al. (1990), the probability of fish in year t of belonging to length interval j (q_{ij}) can be approximated by

$$(F.15) \quad q_{ij} = \frac{w}{\sqrt{2\pi}} \sum_a \frac{p_{at}}{\sigma_a} \exp \left\{ \frac{-(v_j - l_a)^2}{2\sigma_a^2} \right\} ,$$

where w is the width of each length interval, σ_a is the length standard deviation for age-class a and v_j is midpoint of length interval j . Following Fournier et al. (1990, 1998) the standard deviation of length-at-age is assumed to be a function of length, that is,

$$\sigma_a = \eta_1 \exp \left[-\eta_2 \left(1 - 2 \frac{l_{a+h_1-1} - \mu_1}{\mu_A - \mu_1} \right) \right] ,$$

where η_1 is the standard deviation of length at an intermediate age and η_2 is the trend in length dependence on deviation in length distribution ($\eta_2 = 0$ implies length independence).

Model Objective Function

The objective of the analysis is to minimize the sum of the negative log-probability density functions (L) through the evaluation of alternative fundamental parameter values. In this model we consider nine sources of log-probability,

$$(F.16) \quad L = L_f + L_{MR} + L_h + L_t | \mu_1 + L_A + L_p + L_{\Delta l} + L_{\Delta p} + L_{\Delta R} ,$$

where L_f is associated with length frequency data, L_{MR} with the mark-recapture data, L_h with the length-at-age data, $L_t | \mu_1$ with the length at release and recapture data, L_A with abundance indices data, L_p with age-class composition data, $L_{\Delta l}$ with annual length deviations from the mean trend, $L_{\Delta p}$ with age deviations and $L_{\Delta R}$ with recruitment deviations. The observed length-frequency, mark-recapture, length-at-age, tagging length, abundance index and age-class composition data contribute to the objective function (F.16) through the associated likelihoods. All the other sources serve to constrain or condition L_f , L_{MR} , L_h , $L_t | \mu_1$, L_A and L_p . The constraints can be viewed in a Bayesian perspective with, $L_{\Delta l}$, $L_{\Delta p}$ and $L_{\Delta R}$ prior normal distributions with 0 mean and known variance and L the posterior.

Length Frequency Likelihood

The length frequencies are assumed to exhibit a multinomial distribution. Following Gazey et al. (2008) a robustified version of the negative log-likelihood is used here ignoring all constant terms, that is,

$$(F.17) \quad L_f = \sum_t \sum_j \tilde{q}_{tj} \sqrt{n_t} \log_e \left(\frac{0.01}{J} + q_{tj} \right) ,$$

where n_t is the sample size for each year t , \tilde{q}_{tj} is the sample proportion in each year and length interval j and q_{tj} the model predicted proportion in year t of length interval j via equation (F.15).

Mark Recapture Likelihood

The observations \tilde{u}_t (unmarked captures) and \tilde{r}_t (marked recaptures) are assumed to be independent Poisson distributions with means given by equations (F.13) and (F.14), which, ignoring constant terms, leads to the following negative log-likelihood:

$$(F.18) \quad L_{MR} = \sum_t [\tilde{r}_t \log_e(r_t) - r_t + \tilde{u}_t \log_e(u_t) - u_t] .$$

Note that unlike Coggins et al. (2006), equation (F.18) provides the likelihood for the observed data. Coggins et al (2006) used estimates based on length of unmarked captures and marked recaptures by age

class as surrogates for observed data. As pointed out by Kitchell et al. (2003) this is a potential source of bias in the ASMR as used by Coggins et al.

Age-Length Likelihood

Each observation \tilde{l}_{hti} (length of individual fish i obtained in year t assessed from scale information to be of age h) is assumed to have a normal distribution with the mean age provided by equation (B.1) which, ignoring constant terms, leads to the following negative log-likelihood:

$$(F.19) \quad L_h = b_h \sum_t \sum_i (\tilde{l}_{hti} - l_h)^2 ,$$

where b_h is a user provided (known) penalty weight. This is the equivalent to the specification of the variance as:

$$V_h = \frac{1}{2b_h} .$$

Note that equation (F.19) is restrictive in that it assumes that the fish can be aged from scales without error and that the mean trend holds for all years. The estimation of the length deviations by age, Al_h , may provide some direction in that any trend over age may indicate trends over time as well.

Length Increment from Tagging Likelihood

The Fabens (1965) von Bertalanffy model for tagging mark-recapture data was first recast to be consistent with the three parameters (μ_l, μ_A and K) found in equation (F.1). Following Walters and Essington (2008), each individual length observation of a fish at recapture (\tilde{l}_{ri}) is assumed to have a normal distribution conditioned by the length observation at release (\tilde{l}_{0i}). Furthermore, all fish are assumed to share a common growth coefficient K . The subsequent negative log-likelihood is a weighed regression:

$$(F.20) \quad L_t | \mu_l = \sum_i \left(\frac{D_i^2}{V_i} + .5 \log_e V_i \right)$$

where

$$D_i = \tilde{l}_{ri} - \tilde{l}_{0i} - \left\{ \mu_A - \tilde{l}_{0i} + (\tilde{l}_{0i} - \mu_l) \exp[-K(h_A - 1)] \right\} \frac{1 - \exp(1 - K\Delta\tilde{t}_i)}{1 - \exp[-K(h_A - 1)]}$$

and

$$V_i = \sigma_m^2 [1 + \exp(-2K \cdot \Delta\tilde{t}_i)] + \sigma_L^2 [1 - \exp(-K \cdot \Delta\tilde{t}_i)]$$

and where h_A is the mean age at length μ_A , $\Delta\tilde{t}_i$ is the time-at-large for the i 'th fish, σ_m^2 is the variance of the measurement error (assumed to be known) and σ_L^2 is the variance of length. Equation (F.20) is conditioned on μ_l because μ_l and μ_A are confounded (i.e., both can not be estimated). Therefore, (F.19) and (F.20) must be evaluated together as a summation as done in equation (F.16). The measurement (σ_m^2) and length (σ_L^2) variances are also confounded; however, substantial information is available on σ_m^2 from mark-recaptures taken within a sampling year where growth is minimal (e.g., time-at-large less than 10 days) such that σ_m^2 can be deemed a known quantity and need not be considered a fundamental parameter to be estimated. Equation F.20 can be viewed as a functional non-linear regression where the weights account for the error in the independent variable length at release and may provide unbiased parameter estimates consistent with those obtained from equation F.19.

Abundance Index Likelihood

The number of fish sampled divided by effort (\tilde{E}_t , e.g., hours of electro-fishing) is assumed to provide an index of abundance. The logarithmic predicted abundance (Y_t) and the sample abundance index (\tilde{Y}_t) were standardized by removing the mean and assumed to be distributed normally, that is,

$$(F.21) \quad L_A = b_A \sum_t (Y_t - \tilde{Y}_t)^2,$$

where

$$Y_t = \log_e \left(\sum_a (M_{at} + U_{at}) \right) - \frac{1}{T} \sum_t \log_e \left(\sum_a (M_{at} + U_{at}) \right),$$

and

$$\tilde{Y}_t = \log_e \left\{ \frac{\sum_t (\tilde{r}_{at} + \tilde{u}_{at})}{\tilde{E}_t} \right\} - \frac{1}{T} \sum_t \log_e \left\{ \frac{\sum_t (\tilde{r}_{at} + \tilde{u}_{at})}{\tilde{E}_t} \right\},$$

and where b_A is a penalty or weighting factor to be supplied (i.e., not estimated). Walters and Ludwig (1994) demonstrate that equation (F.21) is consistent with assuming the logged proportionality constant, which relates predicted abundance to sample index abundance, has a prior uniform (non-informative) distribution and can be integrated from the equation.

Age Composition Likelihood

Age-class composition (proportion) observations (\tilde{p}_{at}) for age-class a and year t are assumed to be distributed as a multinomial distribution, that is,

$$(F.22) \quad L_p = \sum_a \sum_t \tilde{p}_{at} d_t \log_e(p_{at}),$$

where d_t is the number of fish aged for the composition sample in year t and p_{at} is the model predicted proportion via equation (F.7).

Length Deviation Prior

The contribution (prior) to the objective function from the length deviations is assumed to be normally distributed and given by

$$(F.23) \quad L_{\Delta l} = b_{\Delta l} \sum_h \Delta l_h^2,$$

where $b_{\Delta l}$ is the known penalty weight.

Age Deviation Prior

The contribution (prior) to the objective function from the age deviations is assumed to be normally distributed and given by

$$(F.24) \quad L_{\Delta p} = b_{\Delta p} \sum_{a=1}^{A-1} \sum_{t=1}^T \Delta p_{at}^2,$$

where $b_{\Delta p}$ is the known penalty weight.

Recruitment Deviation Prior

The contribution (prior) to the objective function from the recruitment deviations is assumed to be normally distributed and given by

$$(F.25) \quad L_{\Delta R} = b_{\Delta R} \sum_t \Delta R_t^2,$$

where

$$\Delta R_t = \text{Log}_e(R_t) - \frac{1}{T} \sum_t \text{Log}_e(R_t),$$

and where $b_{\Delta R}$ is the known penalty weight.

Parameter Estimation and Model Inference

Parameter estimation can be accomplished through calculating the mode of the posterior distribution. Bard (1974) showed that this is equivalent to finding the minimum of the negative log-likelihood functions plus the negative log-probability density functions of the associated priors, i.e., find the fundamental parameter values that minimize equation (F.16).

The model definition and minimization of the model objective function can be implemented through the software package AD Model Builder (Otter Research Limited 2000). Variable declaration (Table F1), model definition and model objective function detailed above follow the structure required by AD Model Builder. Each of the sub-headings in these sections could be coded as a subroutine in AD Model Builder. The package allows for the restriction or bounding of parameter values, stepwise optimization and report production of standard errors, marginal posterior profiles and correlation between parameter estimates. AD Model Builder approximates the covariance matrix for parameter estimates with the inverse of the second partial derivatives of the objective function.

Fournier et al. (1998) recommend that model inference from alternative model structures (e.g., model comparison of density-dependent and independent mortality assumptions) employ Bayes posterior factors (BPF, Aitkin 1991). The BPF for model 2 over (likelihood of having a better fit to the data than) model 1 is:

$$(F.26) \quad \text{BPF}_{21} = \exp \left\{ L_1 - L_2 + (P_1 - P_2) \frac{\log_e(2)}{2} \right\},$$

where L_1 and L_2 are the negative log-probability posterior density functions and P_1 and P_2 are the number of parameters. Alternatively, Burnham and Anderson (2002) recommend the use of the Akaike

Information factor (AIF). The AIF for model 2 over model 1 is (ignoring lack of fit and effective sample size corrections and after algebraic manipulation):

$$(F.27) \quad \text{AIF}_{21} = \exp\{L_1 - L_2 + (P_1 - P_2)\}.$$

Both approaches have very similar computations; however, BPF_{21} has a smaller penalty (benefit) for the use of more (fewer) parameters. Aitkin (1991) and Burnham and Anderson (2002) use similar terminology for the interpretation of factor values; namely, 0.01 to 0.05 provides “strong”, 0.001 to .01 provides “very strong” and less than 0.001 provides “overwhelming” evidence (values less than 1.0 implies model 1 fits the data better than model 2).

Table F. Notation used in the age structured mark recapture model proposed to monitor mountain whitefish in the Peace River.

Indices:

a	age-class ($a = 1, 2, \dots, A$) where age-class 1 is the youngest age of a 250 mm fish and A is the oldest age-class found in the data
h	age in years ($h = 0, 1, 2, \dots$) and is related to age-class by $h = a + h_1 - 1$ where h_1 is the age of the youngest age-class ($a = 1$).
i	individual marked fish ($i = 1, 2, 3, \dots$)
j	length interval ($j = 1, 2, \dots, J$)
t	year ($t = 1, 2, \dots, T$)

Data or assumed known variables:

b_h	penalty weight for the age-length likelihood
b_A	penalty weight for abundance index likelihood
$b_{\Delta l}$	penalty weight for the age-length deviation prior
$b_{\Delta R}$	penalty weight for the recruitment deviation prior
d_t	number of fish aged in the age-class composition
\tilde{E}_t	effort expended for sample collection in year t
h_1	age of the youngest age class ($a = 1$)
h_A	age of the oldest age class ($a = A$)
\tilde{l}_{hti}	length of fish i obtained in year t assessed to be of age h
\tilde{l}_{0i}	length when tag applied for fish i
\tilde{l}_{ri}	length when tag recaptured for fish i
\tilde{m}_t	new marks applied in year t , $m_t \leq u_t$
n_t	number of measured fish to obtain length frequency in year t
\tilde{P}_{at}	composition (proportion) of age-class a in year t
\tilde{q}_{tj}	proportion in year t of length interval j
\tilde{r}_t	number of recaptured tagged fish in year t
v_j	midpoint of length interval j
$\Delta \tilde{t}_i$	time-at-large for recapture of fish i
\tilde{u}_t	number of unmarked fish captured in year t
w	width of length intervals
\tilde{Y}_t	standardized logarithmic catch per unit-effort for year t
σ_m^2	variance of length measurement error

Continued ...

Table F.1 Continued.

Fundamental parameters to be estimated:

K	von Bertalanffy growth coefficient
R_t	recruitment during year t (T parameters)
Z	instantaneous mortality at asymptotic length
Δl_a	length deviation for age a (A parameters)
Δp_{at}	logarithmic age deviation for age a in year t [$(A-1)T$ parameters]
λ_a	vulnerability or selectivity for age a (A^*-1 parameters, where A^* is the age of full vulnerability)
η_1	standard deviation of length at an intermediate age
η_2	trend of length dependence on deviation in length distribution (0 implies length independence)
σ_L^2	expected variance of length
μ_1	mean length youngest age class
μ_A	mean length of oldest age class

Negative log-probability densities:

L	total joint posterior
L_A	abundance index
L_f	length frequency
L_h	growth from length-at-age
$L_t \mu_1$	growth from tagging length conditional on mean length of age class 1
L_{MR}	mark recapture
L_p	age-class composition
$L_{\Delta l}$	annual length deviation
$L_{\Delta p}$	age composition deviation
$L_{\Delta R}$	recruitment deviation

Interim variables:

c_t	capture probability in year t
D_i	observed minus expected length at recapture of individual fish i
l_a	mean length of age class a
M_{at}	number of marked fish of age a in year t
p_{at}	age- a composition of year t
q_{ij}	probability of fish in year t belonging to length interval j
r_t	expected recapture of tagged fish in year t
S_a	survival at age a
s_{at}	adjustments to age- a composition for partial vulnerability and age deviation in year t
u_t	expected recapture of unmarked fish in year t
U_{at}	number of unmarked fish of age a in year t
V_i	variance of length at recapture for individual fish i
Y_t	standardized logarithmic abundance index for year t
σ_a	standard deviation of length distribution for age a
