
PEACE RIVER FISH COMMUNITY INDEXING PROGRAM - PHASE I STUDIES



Cover: Peace River near Cache Creek.

PEACE RIVER FISH COMMUNITY INDEXING PROGRAM - PHASE I STUDIES

Prepared for

B.C. Hydro
Power Supply Environmental Services
6911 Southpoint Drive, Tower
Burnaby, British Columbia
V3N 4X8

By

P&E Environmental Consultants Ltd.
Box 33178 Glenwood P.O.
Edmonton, Alberta
T5P 4V8

In association with

LGL Limited
9768 Second Street
Sidney, British Columbia
V8L 3Y8

March 2002

Citation: P&E Environmental Consultants Ltd. 2002. Peace River Fish Community Indexing Program - Phase I Studies. Prepared for B.C. Hydro. P&E Report No. 01005F: 76 p. + Appendices

EXECUTIVE SUMMARY

B.C. Hydro has initiated a Large River Program in the Peace River and Columbia River watersheds to help define the effects of dam and reservoir operations on fish communities. The ultimate goal of this program is to develop monitoring tools that provide a reliable index of the fish community status in each of these watersheds. This program is to be developed using a phased approach over a 3 to 5 year period. In July 2001, B.C. Hydro initiated Phase I, with the primary goal being to develop standardized sampling protocols.

The primary purpose of Phase I of the Peace River Fish Community Indexing Program was to evaluate a number of monitoring strategies to ascertain what type of program would be needed to identify changes in the fish community. The three broad strategies that were investigated included use of biological characteristics, indices of relative abundance, and population estimates.

The Phase I field program completed in August and October of 2001 documented the general characteristics of the fish community in the mainstem Peace River and the lower sections of its tributaries. The findings of this investigation, which described the biological characteristics, distribution, and abundance of fish populations, were similar to findings by previous investigators. The program also addressed data gaps in the fish community information base. Biological characteristics of selected species were described (bull trout, longnose sucker, and largescale sucker) and the distribution of listed species (bull trout, spottail shiner, and goldeye) was documented. Bull trout and spottail shiner are widely distributed in the study area, while goldeye are restricted to the lowermost reach of the mainstem river. The results of the present study suggest that there has been an expansion in the historical distribution of spottail shiner.

Evaluation of biological characteristics (age-distribution, body condition, and growth rate) indicated that these parameters could be used as monitoring tools. The results for one species, mountain whitefish, indicated that for each of these parameters the sample should be stratified to account for spatial and temporal differences in population characteristics.

Evaluation of the relative abundance of small fish suggested that catch rates were generally very low and highly variable, which preclude use of small-fish catch rate as a monitoring tool. However, results of the large-fish component of the study suggested that catch rates generated by boat electrofishing could be used for monitoring purposes. Evaluation of factors that affect abundance indices showed that zone, season, habitat, water clarity, and discharge influence catch rate.

Catch rates tended to be highest in October and species-specific abundance was related to the location of the sample zone. Species such as bull trout, mountain whitefish, and rainbow trout were more numerous in upstream zones, while species such as Arctic grayling and longnose sucker were more abundant farther downstream. Catch rates of most target species also were higher in habitat sections containing physical cover. Mountain whitefish was the only species that was more abundant in habitat sections without physical cover.

Water clarity was not an important factor in much of the study area because visibility was generally consistent and high. However, wide variations in water clarity did affect catch rate. Abundance indices of some species increased with water clarity, while for other species the opposite trend occurred. This suggests that the effect of variable water clarity is not consistent among species. Variable discharge may also affect catch rate. Preliminary results examining the relationship between water level and catch rate suggest that catch rates are higher during periods with stable water flows (high and low) compared to periods with changing water flows (rising and falling).

The best approach to reduce the effects of these factors is to stratify the sample. This would help ensure a constant catchability within a particular stratum and would improve the precision of the catch rate estimate. Examination of data parameters also suggest that sample variation could be reduced further by not including all observed fish as part of the catch and by adjusting the data using logarithmic transformation. The precision of the catch rate data does limit its effectiveness as a monitoring tool. Power analysis suggests that catch rate data for Arctic grayling and mountain whitefish would be suitable to detect a change of 25% in the sample population. But, logistical constraints likely would preclude collection of sufficient sample sizes for other species.

Population estimates can also be used as a monitoring tool on the Peace River because the assumptions for the mark-recapture sequential closed population model can be met. For the Phase I study, point estimates of population size were of limited value because of poor precision. The data did suggest that

there is a 0.95 probability that the abundance of mountain whitefish was at least 150,000 and the abundance of Arctic grayling was at least 1000. Based on work during previous investigations, more than 100 hours of boat electrofishing may be needed to stabilize the precision of the population estimates for the entire study area. This would represent a four-fold increase, approximately, in the sampling effort expended during Phase I.

The stated overall objective of the Large River Program is 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. As such, the monitoring protocol for these large river systems should be based on a systematic assessment of the potential effects of dam operation on the fish community, the best indicator species based on life history and catchability, the specific sampling locations, and the optimal sampling times.

Based on the finding of the Phase I study, we recommend that mountain whitefish and Arctic grayling would be suitable target species for the monitoring program. Both species are readily captured in near-shore areas using boat electrofishing. The section of the Peace River between the Pine and Halfway rivers (Reach 2 or Phase I zones 2 and 3) would be the best location to periodically assess the population status of these species. The only concern regarding this choice is that the reach is situated 50 km downstream of the PCN Dam, which may reduce the ability to monitor the effects of dam operation. Within the monitoring reach, sampling should be distributed between at least 3 sites to assess within-year variability between the monitoring sites and help ensure that any changes observed between years are not simply the result of localized changes in the fish population.

Based on the Phase I study results, the best sampling conditions would occur when flows are high and stable. Late summer to fall would likely provide an appropriate window, but ultimately, the timing of the surveys should be determined by water temperature and flow conditions rather than calendar dates.

Prior to initiating the program, specific sampling and enumeration objectives should be clearly defined for target and non-target species. This approach will ensure that project managers can make an accurate estimate of the amount of sampling effort required to achieve the goals of the program.

The above sampling design would provide a balanced and robust approach for monitoring the fish community in the Peace River. Information could be collected from all species encountered while sampling efforts would focus on the target species. The surveys would be distributed over a significant portion of the river, but would focus on times and areas where the sampling methods are most effective at capturing the target species. The initiation of the surveys would be responsive to annual variation in water temperature and flow, but the survey interval would be sufficiently long to ensure that the results are not compromised for short-term anomalies. The combination of the systematic application of electrofishing effort with a mark-recapture program would provide meaningful catch rate data and a means of assessing the within and between year variability in the efficiency of the survey methods.

The overall goal for the next two years should be to implement and test the above sampling design. If successful, the above approach could be repeated at 3-5 year intervals to monitor long-term changes in the fish community or more frequently to assess specific changes resulting from alternative operating regimes.

ACKNOWLEDGEMENTS

P&E Environmental Consultants Ltd. (P&E) would like to thank Paul Higgins of B.C. Hydro for initiating the study and for providing timely assistance. We also thank North/South Consultants Inc. for providing a boat electrofisher and experienced boat operator during the study. Gary Ash of Golder Associates Ltd. and Tim Slaney of Aquatic Resources Ltd. provided reports and/or copies of raw data generated during previous B.C. Hydro studies on the Peace River.

The individuals associated with P&E Environmental Consultants Ltd. who participated in the study were as follows:

| | |
|----------------|---|
| Rick Pattenden | Senior Biologist and Senior Author |
| Ash McHone | Technician |
| Kirt Shuman | Technician |
| Harold Funk | Technician of North/South Consultants Ltd. |
| Dan Watson | Technician of Diamond Willow Environmental Consulting |

The individuals of LGL Limited responsible for the population estimate component of the study were as follows:

| | |
|--------------|-------------------------------|
| Karl English | Senior Biologist and Coauthor |
| Bill Gazey | Senior Analyst and Coauthor |

The individuals of Mike Miles and Associates Ltd. responsible for providing the water level recorders and for interpreting the water level data were as follows:

| | |
|-----------------------|-------------------------|
| Mike Miles | Fluvial Geomorphologist |
| Elizabeth Goldsworthy | Senior Technician |

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1.0 INTRODUCTION

B.C. Hydro has initiated a Large River Program in the Peace River and Columbia River watersheds to help define the effects of dam and reservoir operations on fish communities. The ultimate goal of this program is to develop monitoring tools that provide a reliable index of the fish community status in each of these watersheds. The overall goals of the Large River Program are to:

1. Develop a reliable and cost-effective method (s) for indexing the fish community.
2. Complete investigations to fill data gaps associated with life history and habitat use of the species of special concern.
3. Implement specialized monitoring activities in relation to identified species of concern.

This program is to be developed using a phased approach over a 3 to 5 year period. In July 2001, B.C. Hydro initiated Phase I, with the primary purpose being to develop standardized sampling protocols to achieve Goal #1. P&E Environmental Consultants Ltd. (P&E), in cooperation with LGL Limited (LGL) and M. Miles and Associates Ltd. (MMA), were contracted by B.C. Hydro to undertake Phase 1 of the Peace River Fish Community Indexing Program. P&E was the managing consultant, and as such, was responsible for the majority of the program. The role of LGL Limited was to evaluate the reliability of population estimates as a monitoring tool for the Peace River. M. Miles and Associates used their expertise to design a water level monitoring program to help establish whether discharge influenced fish sampling effectiveness.

This documents summarizes the findings of Phase I of the Peace River Fish Community Indexing Program. Also provided are recommendations to assist in the development of Phase II of the Large River Program.

1.1 BACKGROUND

Several investigations completed in British Columbia (Burrows *et al.* 1999; Slaney *et al.* 1991a, 1991b; Pattenden *et al.* 1990, 1991, 1992; RL&L 2001) and Alberta (Hildebrand 1990; RL&L 2000) provide good baseline information of the general characteristics of the fish community in the Peace River. This includes a description of the composition, relative abundance, seasonal movement patterns, biological characteristics, and general habitats of the more common species. Some of these investigations and others

have also assessed how the operation of the B.C. Hydro facilities has affected the fish community in this section of the Peace River (Hildebrand 1990; RL&L 1992 and 2001).

The Peace River is a regulated system that exhibits discharge fluctuations caused by the operation of the W.A.C. Bennett and Peace Canyon (PCN) dams. This operational regime has a number of effects on the fish community, which include physical displacement of fish, changes to the type and quantity of habitat, and an altered water temperature regime (RL&L 2001).

The fish community in the Peace River downstream of the PCN Dam consists of a diverse assemblage of 28 fish species. In general, the mainstem river supports low densities of small-sized fish, which are largely restricted to unique habitats that provide refuge (RL&L 2001). In contrast, larger-sized fish are relatively abundant and adult life-stages of several species are widely distributed. Most of these species spawn and rear in study area tributaries, thereby allowing the smaller, younger fish to avoid the potentially adverse conditions in the mainstem river.

Monitoring changes to the fish community on a large flow-regulated system such as the Peace River presents special challenges. A combination of factors including the large size of the study area, flow regime, water temperature, and habitat characteristics has created a complex fish community. Each of the fish species populations that comprise this community has specific habitat preferences that may change depending on life-stage and season. In addition, the effectiveness of sampling methodologies is influenced by the operational regime of the W.A.C. Bennett and PCN dams. Variable water flows create logistical constraints and can alter species-specific fish capture rates. All these factors must be considered when designing and implementing a monitoring program.

The primary purpose of Phase I was to evaluate a number of monitoring strategies to ascertain what type of program would be needed to identify spatial and temporal changes in the fish community. The three broad strategies that were investigated included use of biological characteristics, indices of relative abundance, and population estimates.

1.2 OBJECTIVES

The objectives of the Phase 1 Peace River Fish Community Indexing Program were as follows:

1. Update basic information on the fish community including listed species.
2. Identify data gaps in the existing database.
3. Document spatial and temporal variation in the fish community.
4. Identify and evaluate factors that influence the assumptions of sampling methods.
5. Make recommendations to help guide Phase II of the Program.

1.3 SCOPE

To achieve these objectives the scope of the study was as follows:

1. Conduct a field-sampling program to document seasonal changes in the abundance and distribution of fish populations using shallow-water/near-shore habitats.
2. Conduct investigations required to develop standardized monitoring protocols for shallow-water/near-shore habitats. These were to include evaluating the effectiveness of alternative gear types and documentation of temporal variation (diel and seasonal).

Phase I of the Peace River Fish Community Indexing Program did not address two of the study requirements identified in the Terms of Reference. First, the investigation did not evaluate the effectiveness of alternate gear types as monitoring tools because these evaluations were undertaken (indirectly) by previous studies on the Peace River (Hildebrand 1991; Pattenden *et al.* 1990, 1991; RL&L 2001). As such, only gear types deemed to be the most effective sampling methods were employed. Second, evaluation of diel variation was not completed. Initial investigations during the field program identified logistical and safety constraints that severely restricted examination of diel variation; therefore, this study component was not pursued. Given that the primary objective of Phase I was to develop an effective, standardized monitoring protocol, it was deemed inappropriate to invest time and monies in gear types and sampling strategies that would provide unreliable results or that would not be incorporated into future monitoring programs.

3. Undertake a mark-recapture program to generate estimates of absolute abundance for major fish populations and to ascertain the amount of sampling effort needed to obtain precise estimates.
4. Provide recommendations to achieve the overarching goals of the program.
5. Prepare a concise technical report outlining the findings and recommendations of the Phase 1 studies.

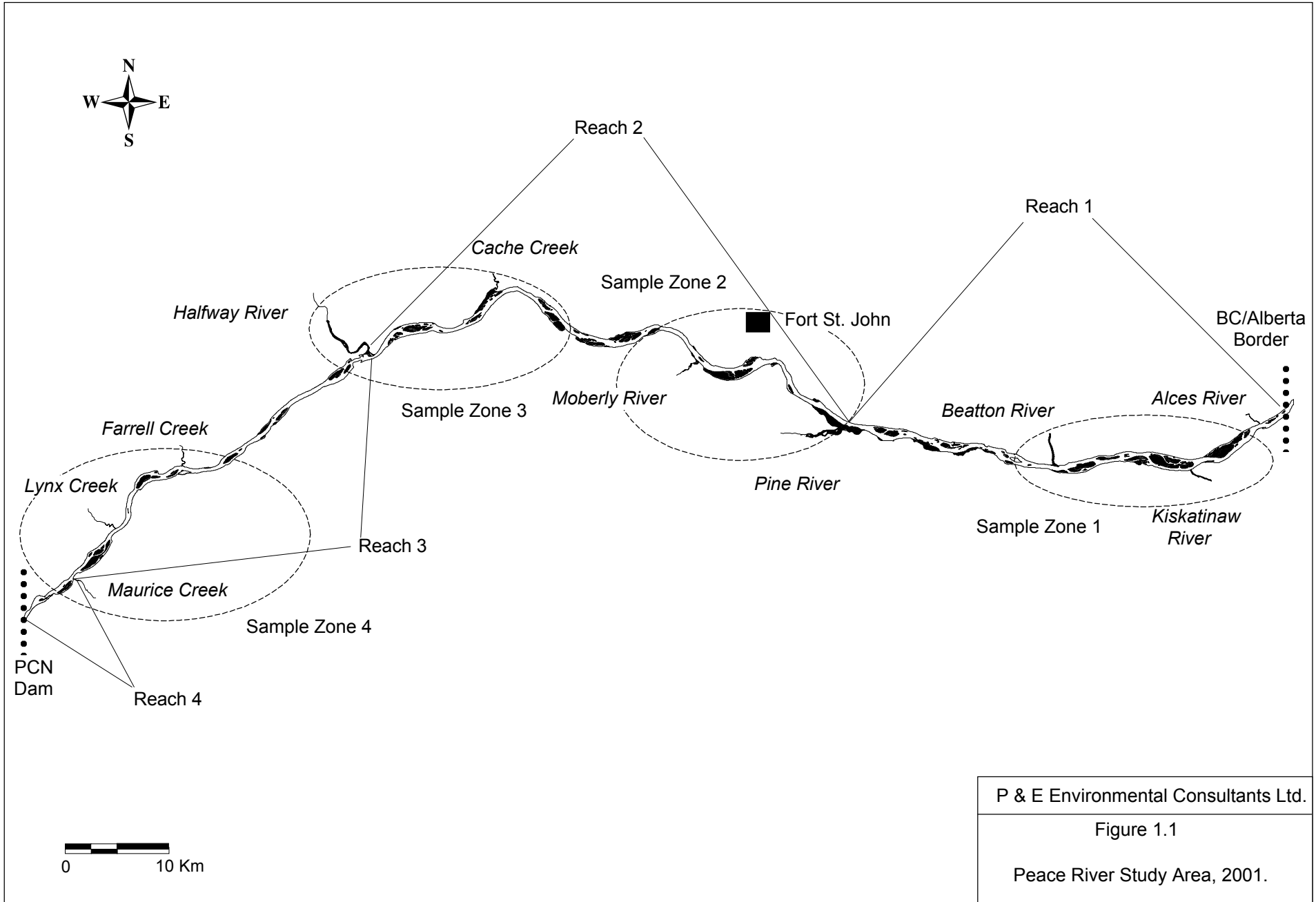
1.4 STUDY AREA

The study area for the fish community indexing program encompassed a 147 km section of the Peace River from the British Columbia-Alberta border to just downstream of the PCN Dam (Figure 1.1). Past studies differentiated this river section into four discrete reaches based on differences in channel morphology, gradient, turbidity, and dominant substrate type (Table 1.1). During these previous investigations large sections of each reach were sampled (Pattenden *et al.* 1990, 1991); however, standardized sampling areas were not established. In 1999, RL&L (2001) defined and sampled four zones, one in each reach. The present study incorporated three of these sampling zones into the field program. The only exception was the omission of the zone in Reach 4 and the addition of a zone in Reach 2 near the Moberly River. The rationale for this was as follows:

- Previous investigations documented low and variable catch rates for most fish species and species diversity was low in Reach 4 (Pattenden *et al.* 1991; RL&L 2001); therefore, this river section was not expected to provide data that were suitable for monitoring purposes.
- Given the logistical constraints that existed in Reach 4 (i.e., access to sample sections dependent on operational regime of PCN Dam, high velocity and/or deep-water areas limited capture effectiveness) sampling in the new zone would be a better use of time and money because effort could be more evenly distributed and sampling would be more effective.
- The new zone would provide information for a section of river that contained a good representation of species in the fish community.
- Placement of a zone at the new location would provide better coverage of the river. The distribution of sample zones used in 1999 left an unsampled section of river that represented 43% of the study area.

This distribution of sampling effort had the potential disadvantage of causing a data gap for the short river section in Reach 4 that potentially could be most greatly affected by changes in the flow regime. To address this issue Phase I sampling was extended into the lower section of Reach 4.

Based on these adjustments, the present study included four sample zones distributed between the British Columbia-Alberta border and the PCN Dam. These zones ranged in length from 23 km to 27 km, their total representing 66% of the mainstem Peace River Study Area (Table 1.2).



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 Figure 1.1
 Peace River Study Area, 2001.

Table 1.1 Reach designations and descriptions of the Peace River between the British Columbia/Alberta border and PCN Dam^a.

| Reach | Location (km) | Length (km) | Description | Gradient | Dominant Substrates | Island Complexes | Side to Main Channel Ratio | Water Clarity | Summer Water Temperature (°C) |
|-------|---------------|-------------|---------------------------------|--------------|---------------------|------------------|----------------------------|---------------|-------------------------------|
| 1 | 0 to 48 | 48 | BC/AB border the Pine River | low | silt-gravel | 10 | 0.74 | low | 10.7 - 17.0 |
| 2 | 49 to 104 | 55 | Pine River to the Halfway River | low-moderate | gravel | 8 | 0.53 | low | 10.0 - 14.2 |
| 3 | 105 to 143 | 38 | Halfway River to Maurice Creek | low-moderate | gravel-cobble | 5 | 0.44 | moderate | 9.2 - 13.1 |
| 4 | 144 to 151 | 7 | Maurice Creek to the PCN Dam | high | bedrock-cobble | 3 | 0.35 | high | - |

^a Descriptions from Pattenden *et al.* (1991) and RL&L (2001).

Table 1.2 Locations of zones sampled during Phase I of the Peace River Fish Community Indexing Program, 2001.

| Reach | Zone | Location | Length (km) | Description |
|-------|------|-------------------|-------------|---|
| 1 | 1 | Km 6.1 to 31.2 | 25.1 | Downstream of Kiskatinaw River to upstream of Beatton River. |
| 2 | 2 | Km 47.0 to 70.0 | 23.0 | Upstream of Moberly River to the confluence with the Pine River |
| | 3 | Km 82.0 to 109.0 | 27.0 | Downstream of Cache Creek to upstream of Halfway River. |
| 3 | 4 | Km 120.3 to 145.2 | 24.9 | Downstream of Farrell Creek to upstream of Maurice Creek. |

In addition to work in the mainstem Peace River, sampling also was completed in the lowermost sections of several tributaries. These systems were included in the sampling program to document use by the small-fish community that resided in the mainstem river. The sampled tributaries were as follows:

- Zone 1
 - Beatton River
 - Kiskatinaw River
- Zone 2
 - Moberly River
- Zone 3
 - Halfway River
 - Cache Creek
- Zone 4
 - Maurice Creek
 - Lynx Creek
 - Farrell Creek

1.5 STUDY SCHEDULE

The field program entailed a 12-day sampling session in each of August and October 2001. The schedule was chosen to document seasonal variation in habitat use by fish and to establish whether there were seasonal differences in sampling effectiveness. During each session, eight days were spent sampling near-shore habitats for the large-fish component of the fish community. The remaining four days were used to sample shallow-water habitats for the small-fish component.

2.0 APPROACH AND METHODS

The Phase I study program on the Peace River included field and office components. The field program was designed to capture fish in shallow-water/near-shore habitats. The three primary goals of the field program were as follows:

- Update basic information on fish populations with special emphasis on species of special status and nonsportfish species.
- Document spatial and temporal patterns in fish abundance and distribution.
- Collect information to assess the effectiveness of different monitoring tools.

To evaluate the effectiveness of the monitoring tools, the study was designed to test the assumptions of sampling methods and to ascertain what level of effort would be required to obtain reliable data. This was largely an office exercise, which used data collected during the present investigation, and when possible, data from past studies on the Peace River.

2.1 FIELD PROGRAM

2.1.1 Approach

The field program was designed to collect biological data for the species of interest and to document seasonal changes in abundance and distribution of fish populations using shallow-water/near-shore habitats in the Peace River. The program employed sampling techniques proven to be successful during previous investigations, which included boat electrofishing, beach seining, and backpack electrofishing (Pattenden *et al.* 1990; RL&L 2001). Based on findings from Pattenden *et al.* (1990) and RL&L (2001), fluctuating water levels inherent to the Peace River severely restricted the effectiveness of passive sampling methods such as gill-netting and gee-trapping. As such, these methods either were not used (gee traps), or were employed to sample unique habitats (gill nets).

The field program was divided into small and large-fish sampling components. Small fish were defined as all sizes of most cyprinids (all except northern pike minnow, *Ptychocheilus oregonensis*), trout-perch (*Percopsis omiscomaycus*), and sculpins (*Cottus spp.*), as well as young-of-the-year and younger juveniles of large-fish species <200 mm fork length. Large fish were defined as individuals ≥200 mm fork length. This definition of fish size was used because it generally represented the minimum size of fish that could be effectively captured using boat electrofishing.

Backpack electrofishing and beach seining was used to sample small fish residing in shallow-water habitats #1.0 m water depth. Boat electrofishing targeted larger fish present in near-shore habitats at water depths generally ranging from 0.5 to 2.0 m. Sampling was restricted to areas # 2.0 m deep when using this technique because previous experience showed that electrofishing effectiveness was dramatically reduced beyond this depth. Where appropriate, gill-netting was used to sample deep-water habitats >2.0 m depth.

To assess spatial and temporal patterns in habitat use, all fish sampling was completed within discrete habitat types. RL&L (2001) demonstrated that small fish in the mainstem Peace River were largely restricted to unique habitats. In order to reduce sample variation and to increase catch rates the small-fish sampling program focused on these unique habitats, which included tributary mouths, protected back channels (snyes), backwaters, and shoals.

The large-fish sampling program did not focus sampling on a select number of unique habitats because large fish are widely distributed in the system (Pattenden *et al.* 1990). Instead, sampling encompassed a wide variety of habitat types that were previously defined by RL&L (2001). It is well known that the physical characteristics of sampled habitats can affect catch rates of fish due to species-specific habitat preferences and difference in sampling effectiveness. Investigations by study personnel on large regulated rivers also have established that the availability of physical instream cover can explain much of the observed difference (RL&L 1998). To address these issues, sampled habitat types were categorized into discrete groups based on differences in physical characteristics thought to influence spatial and temporal habitat use by fish: bank slope/depth, water velocity, and the presence of physical instream cover (Table 2.1).

Four habitat categories represented differences in water velocity, bank slope/depth and physical instream cover as follows:

- Gradual slope - shallow water; fast; physical cover (SFC)
- Gradual slope - shallow water; fast; no physical cover (SFN)
- Steep slope - deep water; slow; physical cover (SLC)
- Steep slope - deep water; slow; no physical cover (SLN)

Table 2.1 Habitat categories sampled during Phase I of the Peace River Fish Community Indexing Program, 2001.

| Habitat Category | Bank Habitat ^a | Instream Habitat | Velocity ^b | Bank Configuration ^b | Physical Instream Cover | 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 |
| SLN | A3 | Flat | Low | Steep Slope/ Deep Water | Absent | Rock or Sand |
| SLC | A1/A2 | Flat | Low | Steep Slope/ Deep Water | Present | Rock or Sand |
| CON | D2/D3 | Tributary Confluence | Low | Steep Slope/ Deep Water | -- | Sand |
| BAC | A3/D3 | Back Channel | Nil | Steep Slope/ Deep Water | -- | Silt |

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

^b Based on subjective measure by experienced habitat biologist.

The remaining two habitat categories represented unique areas of the mainstem Peace River. They included tributary confluences (CON), and protected back channels (BAC).

In addition to sampling in the mainstem river, the lower 200 m of flowing tributaries were surveyed. These areas were included in the program to document use by mainstem fish populations and to increase the probability of locating two species of special interest: spottail shiner (*Notropis hudsonius*) and pearl dace (*Margariscus margarita*).

Sampling protocols were standardized to reduce sampling variation and to facilitate comparisons with previous studies. Sampling occurred in predetermined, well-defined sections or sites that represented a specific habitat type or category. Where possible, sites established during previous studies were included in the program.

For electrofishing methods (boat and backpack) the number of fish captured was used as the preferred fish enumeration method rather than number of fish captured plus number of fish observed. Past experience by study personnel indicated that including the number of observed fish in the enumeration data could increase sample variation due to differences in observer experience and bias. The only exception to this rule was recording the number of observed fish for the less abundant species and life stages so that rare fish were not omitted from the sample. This group included adult fish of all sportfish species except mountain whitefish.

Sampling was repeated at established sections or sites to ascertain seasonal differences in abundance. Attempts also were made to undertake repeated sampling during each session to establish the bounds of within-site variation. However, fluctuating water levels changed sampling conditions, which precluded this option. Instead of sampling a small number of sites several times, the number of sites sampled during each session was increased.

2.1.2 Fish Capture Methods

2.1.2.1 Small-fish Sampling

The methods used to sample small fish in the mainstem Peace River and the tributaries were beach seining and backpack electrofishing. The number of samples collected during August and October during the study is summarized in Table 2.2. All sample location and effort data are provided in Appendices A and B.

Beach seining was used to sample habitats exhibiting low to moderate water velocities (<0.3 m/s). The seine was 1.5 m high x 4.5 m wide with a mesh size of 3 mm and was equipped with a weighted lead line and collection bag. The seine bag had the following dimensions: 1.5 high x 2.5 m wide x 1.5 m deep. Samplers first deployed the seine across the sample area and then moved downstream at a rapid and constant pace. At the downstream end of the site, the seine was turned into shore. Contact with the bottom was maintained at all times and if the seine snagged during the sweep the sample was abandoned.

A Smith-Root Type XII high output backpack electrofisher equipped with a 28 cm anode ring was used to capture fish in habitats characterized by higher water velocities than could be effectively sampled by beach seining (>0.3 m/s). The electrofisher operator waded in an upstream direction, while the netter who was equipped with a dip net having a mesh size of 5 mm, collected the immobilized fish.

The area of the habitat determined the length of each small-fish sample. In general, each beach seine and backpack electrofisher sample included at least a minimum 30 m of habitat. Where possible, three beach seine hauls were completed at each site.

Table 2.2 Number of samples collected during Phase I of the Peace River Fish Community Indexing Program, 2001.

| Zone | Method | Mainstem Peace River | | Tributaries | |
|------|----------------------|----------------------|---------|-------------|---------|
| | | August | October | August | October |
| 1 | Boat electrofish | 14 | 14 | | |
| | Beach seine | 11 | 12 | 3 | 6 |
| | Backpack electrofish | | | | |
| 2 | Boat electrofish | 17 | 17 | | |
| | Beach seine | 11 | 21 | | 3 |
| | Backpack electrofish | 3 | | 1 | |
| | Gill net | | 1 | | |
| 3 | Boat electrofish | 13 | 13 | | |
| | Beach seine | 9 | 16 | 1 | 3 |
| | Backpack electrofish | 1 | | 1 | 1 |
| | Gill net | | 2 | | |
| 4 | Boat electrofish | 14 | 13 | | |
| | Beach seine | 10 | 13 | | |
| | Backpack electrofish | | | 3 | 3 |

2.1.2.2 Large-fish Sampling

The primary method used to sample large fish in the mainstem Peace River was boat electrofishing. Attempts were made to sample deep-water habitats using gill nets, but sampling conditions and the limited number of suitable sites precluded extensive use of this method. The number of samples collected using each method during August and October is summarized in Table 2.2. All sample location and effort data are provided in Appendices A and B.

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 maintained at an amperage output of 3.0 to 4.0 A, pulsed DC current, and a frequency of 60 Hz. The sampling procedure involved drifting downstream at motor idle along the channel margins in water depths \approx 2.0 m, while outputting a continuous current of pulsed DC electricity. The only instance when this sampling protocol changed occurred when backwater habitats greater than approximately three boat lengths were encountered. In these situations, the boat was turned into the backwater at its downstream end and the channel margin within the backwater 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. Netters were equipped with nets having a diameter of 45 cm and a depth of 40 cm and a mesh size of 5 cm. To facilitate capture of small fish, the bottom surface (40 cm²) of each net had a mesh size of 1.5 cm. Netters were instructed to retrieve a random sample of immobilized fish that were accessible from their netting position on the platform and to net no more than one fish at a time.

The only exception to this 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.

Electrofishing section lengths were dependant on the area of the habitat category sampled and the numbers of fish encountered. Section length generally ranged between 1000 and 2000 m. Upon completion of an electrofishing section, captured fish were enumerated, processed, and released. To avoid recapture of previously collected fish, fish were released on the opposite side of the river to the channel margin that was to be sampled.

2.1.2.3 Processing Captured Fish

All captured fish were held in a holding tank or bucket until processing. Data recorded for each fish included species, fork length (to the nearest 1 mm), weight (to the nearest 2 g), sexual maturity (through external examination, and/or release of gametal products), and presence of a tag, tag scar, or fin clip. An appropriate ageing structure (Mackay *et al.* 1990) also was collected from target species.

When large numbers of large fish required processing, only the first 200 individuals of a specific species were weighed. This allowed effort to be invested in additional fish sampling rather than fish processing. For small fish, only the first 50 individuals were measured for life history characteristics while the remainder were enumerated. If captured small fish could not be identified to species a sub-sample was preserved for identification in the laboratory.

As part of the population estimate component of the study, fish ≥ 250 mm fork length in good condition were marked with a uniquely numbered Floy tag. The tag was first immersed in an antiseptic, then inserted, using a Dennison Mark II applicator gun, into the dorsal musculature immediately below the dorsal fin between the pterygiophores. The tag was then checked to ensure it was inserted securely. To estimate tag loss rate, each tagged fish also was fin-clipped.

2.1.2.4 Measured Parameters

In addition to fish capture and life history information, other parameters measured for each fish sampling section or site included the following:

- Sample date and time
- Sample period (morning [1]; mid-day [2]; evening [3])
- Effort time in seconds and/or distance in metres
- Sample method settings
- Habitat type or category
- Bank Slope (shallow slope [1]; concave [2]; steep [3]; near vertical [4])
- Dominant substrate type; Modified Wentworth Scale (Cummins 1962)
- Physical Instream Cover (rock; bank irregularities; large organic debris; none)
- Water conductivity (microseimens)
- Water temperature (°C)
- Light intensity (full sun [1]; partial cloud [2]; full cloud [3]; full shade [4])
- Water clarity (cm); using a secchi plate mounted on a pole (plate was 2.5cm wide x 21 cm long partitioned into three equal sections of black, white, and black)
- Location (river kilometre; Universal Transverse Mercator Coordinate)
- Relative sampling efficiency/sampler skill (high [1]; moderate [2]; low [3]; nil [4])
- Relative water velocity (fast [1]; moderate [2]; slow [3]; low or nil [4]); large-fish sampling only
- Water depth (m) and water velocity (m/s); small-fish sampling only

2.1.3 Measurement of Water Levels

M. Miles and Associates Ltd. was responsible for the purchase, activation and downloading of the water level recorders. The unit used to measure and record water level (and water temperature) was the UNIDATA Model 8007A Digital Water Level Recorder (DWLR). The DWLR uses a pressure sensor to determine the water level by the hydrostatic water level measurement method. The instrument is fitted with a vented connection cable that allows the inside of the instrument housing to compensate for

atmospheric pressure. The DWLR contains a 128K memory data logger, which controls the instrument operation, performs the mathematical corrections for sensor mechanics, and logs the results of its measurements. The instrument was programmed to collect data at 5 second intervals and summarize this information every 15 minutes.

Four water level recorder stations were deployed in the study area, one in each sample zone (Appendix A). Stations were positioned in protected locations where the instrument would not be subjected to dewatering. Each unit was weighted with a 10 kg cement block, placed in the river, and then secured to the shore with aircraft cable. The vent tube was secured to the aircraft cable at 1 m intervals. The terminal end of the tube was placed in a PVC container to protect it from the elements and hidden in shoreline vegetation. To prevent detection by vandals exposed aircraft cable and vent tube were buried.

The instruments were deployed at the beginning of the field program in August. Each unit continuously monitored water levels until removal at the end of the October field program. The elevation of the river water surface level was recorded at the time when the unit was removed, which will allow collection of comparable data if the recorders are deployed in the future. The instruments were then shipped to the office for downloading and data summary.

2.2 EVALUATION OF MONITORING TOOLS

2.2.1 Approach

An important objective of the Phase I studies was to evaluate tools used to monitor the fish community in the Peace River. To be effective, the monitoring program should meet three criteria. First, the parameters chosen for monitoring should be sensitive to effects caused by changes in the operational regime of the W.A.C. Bennett and PCN dams. Second, the monitoring methods should be able to detect a change in the target parameter when one actually exists. Third, the methods should be logistically and economically feasible.

Parameters examined during Phase I that have the potential for use as monitoring tools included biological characteristics, indices of abundance, and estimates of absolute abundance. Phase I examined factors that could influence the effectiveness of these monitoring tools. Specifically, the data were evaluated to establish if there were spatial and temporal differences and whether unwanted variation could be reduced. This approach could be used to increase sample precision, and therefore, improve the ability to detect change. Following these evaluations, Phase I quantified the level of sampling effort required to detect a specific magnitude of change in the target parameter.

Procedures used to evaluate the monitoring tools are described below. Unless otherwise stated, statistical analyses followed procedures described in Sokal and Rohlf (1981) and statistical significance was accepted at $P < 0.05$. To meet the assumptions required for parametric statistical analyses (i.e., normal distribution and equal variances) data were transformed where appropriate. Statistical analyses of means used the Oneway Analysis of Variance. The Tukey's HSD test was used to test for differences between individual means. Finally, the large number of multiple Pearson correlation comparisons of boat electrofisher catch rate and different sample variables were adjusted using Boniferroni probabilities.

2.2.2 Biological Characteristics

Biological characteristics examined for use as monitoring tools included size distribution (in place of age-cohort analysis), body condition, and growth rate. Mountain whitefish were used for the evaluation because this species was abundant and widely distributed throughout the study area, and there were sufficient samples sizes for analyses. The analyses focused on whether samples could be collected from the entire study area, or whether there were sample zone and season effects that would necessitate stratification.

Size Distribution

Length-frequency distributions were used as a surrogate of age-distributions to assess whether there were zone and season effects. Fish captured during boat electrofishing were used for the analysis.

Body Condition

The relationship between weight and length of fish can be used to monitor the health of a fish population. Condition indices (e.g., Fulton's Condition Factor) are typically used for this purpose, but there are statistical problems inherent to this approach (Cone 1989). As such, body condition of sample populations was examined using the linear least-squares regression method comparing weight to length.

The data set was standardized by selecting a random sample of 30 fish from each stratum that belonged to the dominant size category of the population (250 mm to 350 mm fork length). These data were then log-transformed prior to the analysis. The data were first examined to ensure that the assumption of equal slopes was valid by testing for interaction between the treatment category and the covariate. Once equality of slopes was established, sample weights were adjusted for the covariate length and the residuals tested.

Growth Rate

Age-at-length was used to assess whether zone affected fish growth rate. Based on sample availability, fish aged 2, 3 and 4 were used for the analyses. For this evaluation, a difference in sample slope using the linear least-squares regression method indicated a difference in growth rate.

2.2.3 Abundance Indices

Catch rate was used to provide an index of fish abundance. For boat electrofishing, catch rate was calculated by dividing the number of fish enumerated by the distance sampled and represented as number of fish per kilometre. The number of fish enumerated equaled the number of fish captured plus the number of rare fish observed. For the purposes of Phase I, a rare fish was defined as a fish >250 mm fork length of the following fish species: Arctic grayling, bull trout, and rainbow trout as well as all individuals of scarce species. For other sampling methods, catch rate represented the number of fish captured per unit effort (metres or metres²).

Most procedures used to evaluate the influence of factors on catch rate are described in the results section for each assessment. Those requiring detailed descriptions are discussed as follows.

Water Level

Water level was used as an index of discharge to ascertain the effect on catch rate. Prior to analysis, water level data collected at each site were converted to proportional values to remove the effects of different reference points at each station. This was accomplished by dividing individual water level datum by the sum of all water levels recorded for that station, zone, and season.

The data recorded at Station 1 was lost due to damage to the unit caused by vandals or beaver activity. As such, information extrapolated using Water Survey of Canada (WSC) Discharge Stations at Taylor and Alces Creek was used as a surrogate for the lost data. The data at the WSC stations were compared to establish patterns in the hydrograph and to calculate travel time between stations. The distance from the Taylor Station to Station 1 was then used to estimate the lag-time between the two sites. The water level data from Taylor was then adjusted to represent conditions at Station 1. This was a valid approach because the timing and relative magnitude of water level fluctuation were the variables of interest rather than the absolute change in water level.

Because the first day of sampling in Zone 4 (17 August) was completed before deployment of the water level station, a similar procedure was used for this site on this date. Comparisons were made between data from the WSC Discharge Station at Hudson Hope and information collected at Station 4 after 17 August.

Power Analysis

The Z-value power equation illustrated below and described in Environment Canada and Department of Fisheries and Oceans (1995) was used to estimate the sample size (n) needed to detect a specified difference (δ) in catch rate (i.e., 10, 25, and 50% difference). Catch rate estimates and standard deviations (SD) used for the calculations were derived from representative samples collected during the Phase I studies. The test assumed a significance level (α) of 0.05 and a power ($1-\beta$) of 0.8; therefore, $Z_\alpha = 1.960$ and $Z_\beta = 1.282$.

$$n \geq \frac{2(Z_\alpha + Z_\beta)^2 SD^2}{\delta^2} + \frac{Z_\alpha^2}{4}$$

2.2.4 Population Estimates

During Phase I, a tagging program was initiated in an attempt to generate population estimates for major fish species in the study area. The tagging program had characteristics that should be considered with reference to the population estimation methodology and limitations of the subsequent estimates. First marks were applied only to fish ≥ 250 mm fork length; therefore, estimates are only applicable to that portion of the population. Second, fish can grow over the life of the study such that fish recruit into the portion of the population ≥ 250 mm fork length then when the study commenced. Third, marked fish can move to sections (habitats) where capture vulnerability is different. Finally, the number of recaptured marks for studies on the Peace River has proven to be sparse (this study, Pattenden *et al.* 1990, 1991), which precludes the application of the classical Jolly-Seber open population models (Seber 1982). A Bayesian approach suggested by Gazey and Staley (1986) is able to accommodate the recruitment adjustments to the data, allow for stratified capture probabilities and cope with very sparse recaptures.

Population estimates were obtained from the mark recapture data following Gazey and Staley (1986). The two sampling sequences used were 17 August to 28 August and 12 October to 23 October.

Recaptures obtained during the same release sequence were not used because these recaptures probably did not have sufficient time to mix with the unmarked fish. Thus, the mark-recapture 2001 study can be regarded as a two-stage Petersen experiment. Because there were very few recoveries, the number of fish examined (sample size) was not adjusted for growth –recruitment into the markable population (≥ 250 mm fork length) as was done in the 1989 and 1990 studies (Pattenden *et al.* 1990, 1991).

The very sparse recoveries also made any point estimates of population size highly unreliable for the 2001 study. However, the Bayesian approach enables the calculation of the posterior distribution of population size N_i from which the probability that the population size is greater than some reference population level, V_j , can be constructed as the compliment of the cumulative density, i.e.,

$$P(N > V_j) = 1 - \sum_{i=1}^j N_i$$

The calculation of these minimum population estimates and associated precision has been shown to be very robust even under very sparse recoveries (Gazey 1994).

In order to explore the precision that may be obtained under alternative sampling intensities, a simple power analysis was conducted on the arctic grayling results from 1989 and 1990 studies and on mountain whitefish from the 1989 study. 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:

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

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

$$R'_t = R_t \cdot \frac{M'_t}{M_t} \cdot \frac{C'_t}{C_t}$$

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 95% highest probability density (HPD) expressed as a percentage of the mean. If the posterior distribution were perfectly symmetrical, then our precision definition would equate to the plus/minus 95% confidence interval.

3.0 RESULTS AND DISCUSSION

3.1 INFORMATION REVIEW

The following provides a brief synopsis of the current understanding of the fish community in the Peace River downstream of the PCN Dam. This summary is based on a review of existing reports and personal communications with individuals that have worked on the system.

Several investigations completed on the Peace River in British Columbia (Burrows *et al.* 1999; Slaney *et al.* 1991a, 1991b; Pattenden *et al.* 1990, 1991, 1992; RL&L 2001) and Alberta (Hildebrand 1990; RL&L 2000) provide good baseline information for the fish community. This includes a description of the species composition, relative abundance, seasonal movement patterns, biological characteristics, and general habitat of the more common species. Some of these investigations and others have also assessed the effect of the B.C. Hydro facility operation on the fish community (Hildebrand 1990; RL&L 1992 and 2001).

The Peace River is a regulated system that exhibits seasonal, daily, and hourly fluctuations in discharge related to the operation of the W.A.C. Bennett and PCN dams, which have a number of potential effects on the fish community (RL&L 1992). Variable and at times, rapid fluctuations in water level can displace fish or exclude them from preferred habitats. The operation regime also has altered the temperature characteristics of the river, which likely has caused a shift in the fish community assemblage from cool to cold-water species. Winter ice conditions have been altered due to maintenance of open water in the upper section of the river and development of a thick, unconsolidated ice sheet along the channel margins in the lower section. The open water likely has improved overwintering conditions for fish, while the shore-fast ice may exclude fish from important shallow-water/near-shore habitats.

The fish community in the Peace River Study Area consists of a large assemblage of up to 28 fish species (Table 3.1). This is due primarily to a transition from cold-water to cool-water fish populations and the availability of fish habitat in major tributaries. Mountain whitefish is the numerically dominant species in the system followed by longnose sucker and largescale sucker. All other species are much less abundant.

Table 3.1 Fish species recorded in the Peace River Study Area^a.

| Family | Common Name | Label | Scientific Name |
|-----------------|----------------------|-------------------------------------|--|
| Salmonidae | Arctic grayling | ARGR | <i>Thymallus arcticus</i> (Pallas) |
| | Brook trout | BKTR | <i>Salvelinus fontinalis</i> (Mitchill) |
| | Bull trout | BLTR | <i>Salvelinus confluentus</i> (Suckley) |
| | Lake trout | LKTR | <i>Salvelinus namaycush</i> (Walbaum) |
| | Kokanee | KOKA | <i>Oncorhynchus nerka</i> (Walbaum) |
| | Lake whitefish | LKWH | <i>Coregonus clupeaformis</i> (Mitchill) |
| | Mountain whitefish | MNWH | <i>Prosopium williamsoni</i> (Girard) |
| | Rainbow trout | RNTR | <i>Oncorhynchus mykiss</i> (Walbaum) |
| Gadidae | Burbot | BURB | <i>Lota lota</i> (Linnaeus) |
| Esocidae | Northern pike | NRPK | <i>Esox lucius</i> Linnaeus |
| Hiodontidae | Goldeye | GOLD | <i>Hiodon alosoides</i> (Rafinesque) |
| Percidae | Walleye | WALL | <i>Stizostedion vitreum vitreum</i> (Mitchill) |
| | Yellow perch | YLPR | <i>Perca flavescens</i> (Mitchill) |
| Catostomidae | Largescale sucker | LSSC | <i>Catostomus macrocheilus</i> Girard |
| | Longnose sucker | LNSC | <i>Catostomus catostomus</i> (Forster) |
| | White sucker | WHSC | <i>Catostomus commersoni</i> (Lacepede) |
| Cyprinidae | Finescale dace | FNDC | <i>Phoxinus neogaeus</i> Cope |
| | Flathead chub | FLCH | <i>Platygobio gracilis</i> (Richardson) |
| | Lake chub | LKCH | <i>Couesius plumbeus</i> (Agassiz) |
| | Longnose dace | LNDC | <i>Rhinichthys cataractae</i> (Valenciennes) |
| | Northern pike minnow | NPMN | <i>Ptychocheilus oregonensis</i> (Richardson) |
| | Peamouth | PEAM | <i>Mylocheilus caurinus</i> (Richardson) |
| | Redside shiner | RSSH | <i>Richardsonius balteatus</i> (Richardson) |
| Spottail shiner | SPSH | <i>Notropis hudsonius</i> (Clinton) | |
| Percopsidae | Trout-perch | TRPR | <i>Percopsis omiscomaycus</i> (Walbaum) |
| Cottidae | Prickly sculpin | PRSC | <i>Cottus asper</i> Richardson |
| | Slimy sculpin | SLSC | <i>Cottus cognatus</i> Richardson |
| | Spoonhead sculpin | SPSC | <i>Cottus ricei</i> (Nelson) |

^a Based on information from Pattenden *et al.* (1990, 1991), Slaney *et al.* (1991a), and RL&L (2001).

In general, the Peace River supports low densities of small-sized fish, which are largely restricted to unique habitats that provide refuge. These important habitats, which include tributary confluences and backwater areas, are sparsely distributed in the system. In contrast, larger-sized fish are relatively abundant and the adult life-stage of most species is widely distributed. Population estimates developed in 1989 and 1990 for selected species were: 4160 Arctic grayling, 5995 rainbow trout, and 117,593 mountain whitefish. Many of the large-sized fish species spawn and rear in tributaries to the Peace River, thereby allowing the smaller, younger fish to avoid the potentially adverse conditions in the mainstem river.

Several fish species found in the study area do not typically spawn or rear in large river systems (Arctic grayling, bull trout, and rainbow trout), and therefore, utilize spawning and rearing habitats in tributaries. One species, bull trout, is known to undertake spawning migrations into the Halfway River

(Pattenden *et al.* 1991; Burrows *et al.* 1999) and it is suspected that Arctic grayling utilize the Halfway and Moberly systems for spawning (Slaney *et al.* 1991b). Anecdotal information from past investigations indicate that younger bull trout remain in the Halfway River system for a number of years before they emigrate to the Peace River. In contrast, an influx of young-of-the-year and yearling Arctic grayling into the mainstem river each fall suggests that young fish of this species spend a shorter period rearing in this system.

For some species most recruitment likely occurs from populations residing upstream of the PCN Dam (rainbow trout, kokanee, and lake whitefish), from downstream of the study area (walleye), or from stocking programs (rainbow trout).

Mountain whitefish, longnose sucker, and largescale sucker appear to be the only fish species that can complete all life requisites in the mainstem Peace River. However, all three species also spawn in tributaries to the Peace River. Mountain whitefish may rely on recruitment from the Halfway River (Pattenden *et al.* 1990, 1991) and both sucker species may use the smaller tributaries (Slaney *et al.* 1991a). Concentrations of juvenile suckers near tributary confluences strongly suggest that spawning occurs in the tributaries.

Walleye, goldeye, and northern pike are not a large component of the fish community. These species are more abundant downstream of the British Columbia-Alberta border where they usually are the dominant sportfish (Hildebrand 1990; RL&L 2000). Cool summer temperatures and high water clarity may limit the distribution and abundance of these species in the study area, but they may also be susceptible to water level fluctuations. For example, northern pike require shallow-water habitats and stable water levels for successful spawning, egg incubation, and rearing.

Small-fish species (sculpins and cyprinids) are not abundant in the mainstem river. Cyprinids are most often found at tributary confluences and in sheltered back channels. It is likely that these populations rely on these areas to complete all of their life requisites. In contrast to cyprinids, sculpins are distributed throughout the mainstem Peace River.

Red and blue listed fish species are present in the Peace River watershed, which include goldeye (*Hiodon alosoides*), bull trout (*Salvelinus confluentus*), spottail shiner (*Notropis hudsonius*), and pearl dace (*Margariscus margarita*). With the exception of bull trout, these species are considered rare (goldeye and spottail shiner) or have not been recorded (pearl dace).

Bull trout are present throughout the mainstem Peace River, but tend to be most abundant upstream of the Pine River confluence. Adults of this population are known to undertake extensive spawning related movements into the Halfway River system. Goldeye are restricted to the lower mainstem Peace River downstream of the Pine River where nonspawning adults have been recorded only during spring and summer. This indicates that the goldeye population is migratory and uses the study area on an opportunistic basis. During the Site C fisheries investigations in 1989 and 1990, spottail shiner were not encountered in the mainstem Peace River or its tributaries. In contrast, this species was present at several tributary confluences during the study completed in 1999 (RL&L 2001). This information suggests that the spottail shiner population has expanded its distribution in the Peace River Study Area.

3.2 FISH COMMUNITY CHARACTERISTICS

The general characteristics of the fish community in the Peace River Study Area have been well documented during previous investigations (Slaney *et al.* 1991a, 1991b; Pattenden *et al.* 1990, 1991; RL&L 2001). This section will highlight findings of the current study that are relevant to the objectives of Phase I. All raw data are presented in Appendices B, C and D.

3.2.1 Species Composition

During the field program on the mainstem Peace River, a total of 4,820 fish representing 26 fish species were recorded in the study area (Table 3.2). These included 12 sportfish, 3 suckers, 8 cyprinids/trout-perch, and 3 sculpins.

In the large-fish sample, mountain whitefish was the dominant species (69.8%). Arctic grayling contributed 4.3% to the sample, bull trout and rainbow trout each accounted for approximately 2.0%, and walleye and northern pike accounted for 1.1%. All other sportfish were infrequently encountered.

Of special note was a single brook trout captured in Zone 3 during August, which was 12 km downstream of the Halfway River confluence. This apparently is the first record of the species in the mainstem Peace River in British Columbia (Nick Baccante, Regional Fisheries Biologist, Ministry of Water, Land and Air Protection, *pers. comm.*). Yellow perch (4) were also recorded in a small back channel downstream of the Moberly River, which is the identical location where this species was recorded during the Site C investigations (Pattenden *et al.* 1991).

The listed species goldeye, also was recorded. Nine individuals were captured in Zone 1 during August. It should also be noted that lake whitefish were rarely encountered during the present study, which is in contrast to the Site C work when this species was the third most abundant sportfish in the area (Pattenden *et al.* 1990).

Table 3.2 Number and percent composition of fish species recorded in the mainstem river (all methods combined) during Phase I of the Peace River Fish Community Indexing Program, 2001.

| Group | Species | Large-fish Sample | | Small-fish Sample | |
|-----------------------|-----------------------|-------------------|--------------|-------------------|--------------|
| | | Number | Percent | Number | Percent |
| Sportfish | Arctic grayling | 143 | 4.3 | 1 | 0.1 |
| | Brook trout | 1 | | | |
| | Bull trout | 83 | 2.5 | | |
| | Burbot | 7 | 0.2 | | |
| | Goldeye | 9 | 0.3 | | |
| | Kokanee | 5 | 0.1 | 32 | 2.2 |
| | Lake whitefish | 8 | 0.2 | | |
| | Mountain whitefish | 2348 | 69.8 | 7 | 0.5 |
| | Northern pike | 36 | 1.1 | 2 | 0.1 |
| | Rainbow trout | 79 | 2.3 | | |
| | Walleye | 36 | 1.1 | | |
| | Yellow perch | 4 | 0.1 | 1 | 0.1 |
| | Subtotal | 2759 | 82.0 | 43 | 3.0 |
| Suckers | Longnose sucker | 382 | 11.4 | 36 | 2.5 |
| | Largescale sucker | 204 | 6.1 | 7 | 0.5 |
| | White sucker | 7 | 0.2 | | |
| | Young-of-year sucker | | | 847 | 58.3 |
| Subtotal | 593 | 17.6 | 890 | 61.2 | |
| Cyprinids/trout-perch | Flathead chub | | | 13 | 0.9 |
| | Lake chub | | | 14 | 1.0 |
| | Longnose dace | | | 17 | 1.2 |
| | Northern pike minnow | 12 | 0.4 | 11 | 0.7 |
| | Peamouth ^a | | | 2 | 0.1 |
| | Redside shiner | | | 134 | 9.2 |
| | Spottail shiner | | | 294 | 20.2 |
| | Trout-perch | | | 2 | 0.1 |
| Subtotal | 12 | 0.4 | 487 | 33.4 | |
| Sculpins | Prickly sculpin | | | 6 | 0.4 |
| | Slimy sculpin | | | 21 | 1.4 |
| | Spoonhead sculpin | | | 9 | 0.6 |
| Subtotal | 0 | 0.0 | 36 | 2.5 | |
| Total | | 3364 | 100.0 | 1456 | 100.0 |

^a Two fish recorded in tributary sites.

Longnose sucker (11.4%) and largescale sucker (6.1%) were the second and third most numerically important species in the large-fish sample. Northern pikeminnow (0.4%) was the only cyprinid represented in the large-fish catch, which was expected because the other small-fish species were not effectively sampled using boat electrofishing or gillnetting.

In the small-fish sample, sportfish species accounted for a very small percentage of the catch (3.0%). The numbers of sportfish species were as follows: Arctic grayling (1), kokanee (32), mountain whitefish (7), northern pike (2), and yellow perch (1). The kokanee consisted of young-of-the-year and yearling fish captured primarily in October. These fish likely had dispersed from Williston Reservoir.

Unidentified young-of-the year suckers, which were present throughout the study area, accounted for the greatest percentage of the small-fish sample (58.3%). Redside shiner and the listed species spottail shiner were the most prominent cyprinids (9.2% and 20.2%, respectively). Sculpins were represented by three species, but these fish accounted for a small portion of the sample (2.5%).

3.2.2 Distribution

The majority of large-fish species recorded from the mainstem river were widely distributed throughout the study area (Table 3.3). This was true for most sportfish and sucker species, but there were exceptions. For example, goldeye and walleye were encountered only in downstream zones.

Fish species in the small-fish sample exhibited a different spatial distribution. Most sportfish species were encountered in only one or two zones. The one exception was mountain whitefish, which occurred in zones 1 to 4. Several species in the cyprinid group were widespread in the study area. These included northern pikeminnow, redside shiner, and the listed species spottail shiner. Zone 4 was the only location where spottail shiners were not encountered. Cyprinids exhibiting restricted distributions in the study area were flathead chub, lake chub, and trout-perch, which tended to occur only in downstream zones. All three sculpin species were restricted zones 2 and 3.

It should be noted that this information represents the distribution of fish in the Peace River but many of these species were encountered at or near tributary confluences. This distribution pattern is consistent with findings made during the tributary surveys, which documented similar species assemblages (Appendix D).

3.2.2 Abundance Indices

The dominant sampling methods used to document the relative abundance of fish in the mainstem Peace River was boat electrofishing (large-fish sampling) and beach seining (small-fish sampling). Other methods including, gill-netting, and backpack electrofishing were infrequently used and the results of these methods will not be discussed. A complete summary of fish abundance by sampling method is provided in Appendix D.

Table 3.3 Distribution of fish species in the mainstem river during Phase I of the Peace River Fish Community Indexing Program, 2001.

| Group | Species | Large-Fish Sample | | | | Small-Fish Sample | | | |
|---------------------------|----------------------|-------------------|---|---|---|-------------------|---|---|---|
| | | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 |
| Sportfish | Arctic grayling | ✓ | ✓ | ✓ | ✓ | | | ✓ | |
| | Brook trout | | | ✓ | | | | | |
| | Bull trout | ✓ | ✓ | ✓ | ✓ | | | | |
| | Burbot | ✓ | | ✓ | | | | | |
| | Goldeye | ✓ | | | | | | | |
| | Kokanee | | ✓ | ✓ | ✓ | | | | ✓ |
| | Lake whitefish | | ✓ | | ✓ | | | | |
| | Mountain whitefish | ✓ | ✓ | ✓ | ✓ | | ✓ | ✓ | ✓ |
| | Northern pike | ✓ | ✓ | ✓ | | ✓ | ✓ | | |
| | Rainbow trout | ✓ | ✓ | ✓ | ✓ | | | | |
| | Walleye | ✓ | ✓ | | | | | | |
| | Yellow perch | | ✓ | | | | ✓ | | |
| | Suckers | Longnose sucker | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Largescale sucker | | ✓ | ✓ | ✓ | ✓ | | ✓ | ✓ | ✓ |
| White sucker | | | ✓ | | | | | | |
| Cyprinids/ trout-perch | Flathead chub | | | | | ✓ | | | |
| | Lake chub | | | | | ✓ | | ✓ | |
| | Longnose dace | | | | | | ✓ | | |
| | Northern pike minnow | ✓ | ✓ | | ✓ | ✓ | ✓ | | ✓ |
| | Redside shiner | | | | | ✓ | ✓ | ✓ | ✓ |
| | Spottail shiner | | | | | ✓ | ✓ | ✓ | |
| | Trout-perch | | | | | ✓ | ✓ | | |
| Sculpins | Prickly sculpin | | | | | | ✓ | ✓ | |
| | Slimy sculpin | | | | | | ✓ | ✓ | |
| | Spoonhead sculpin | | | | | | ✓ | ✓ | |

Catch rates during large-fish sampling varied depending on species (Figure 3.1). Mountain whitefish was the most abundant fish encountered in the study area (17.7 fish/km). Other sportfish were present, but catch rates were much lower (≤ 2.0 fish/km). Arctic grayling were the next most numerous sportfish (1.1 fish/km) followed by bull trout (0.6 fish/km), and rainbow trout (0.6 fish/km). Other sportfish species exhibited catch rates of < 0.3 fish/km. Longnose sucker and largescale sucker were the second and third most abundant large-fish species, but catch rates did not exceed 3.0 fish/km.

In general, catch rates recorded during small-fish sampling on the mainstem Peace River were very low (Figure 3.1). Young-of-the-year suckers were the most abundant fish encountered 4.3 fish/100 m². Redside shiner and spottail shiner were the only other species that exhibited catch rates higher than 0.7 fish/100 m². All other species including cyprinids, sportfish and sculpins exhibited very low abundance (< 0.2 fish/100 m²).

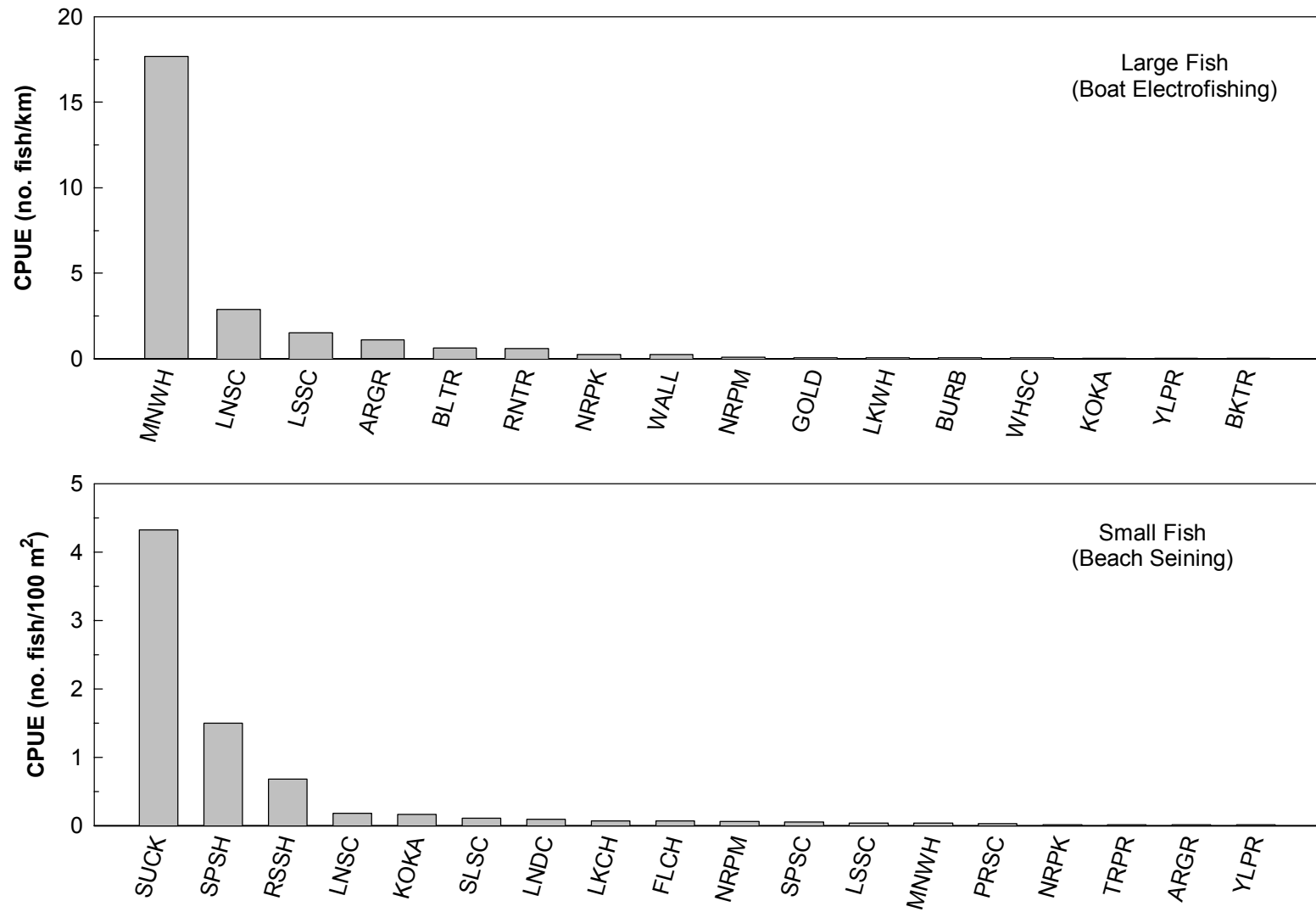


Figure 3.1 Relative abundance of fish species encountered during Phase I of the Peace River Fish Community Indexing Program, 2001 (Seasons and zones combined; see Table 3.1 for fish species abbreviations).

3.2.4 Biological Characteristics

Because concise summaries that describe the biological characteristics of major fish species have been presented in previous reports (Pattenden *et al.* 1990, 1991; RL&L 2001), this section will concentrate on fish species that have data gaps in the information base. These include bull trout, longnose sucker, and largescale sucker. All biological data collected during the present study are listed in Appendix C.

Bull trout

Data were collected from 77 bull trout captured during the small and large-fish sampling programs in August and October. These fish ranged in fork length from 153 mm to 596 mm and from 34 to 3300 gm in weight. The length frequency distribution spanned a full range of size-classes, but two modes were evident at 300 and 410 mm (Figure 3.2). The slope of the length-weight regression line was 2.957, which suggested isometric growth. Sampled fish ranged in age from 2 to 7 years.

Longnose sucker

Data were collected from 487 longnose sucker captured during all components of the field programs (mainstem and tributary sampling). These fish ranged in length from 25 to 845 mm fork length and the length frequency distribution exhibited three primary modes at 40 mm, 175 mm, and 430 mm (Figure 3.3). These fish ranged in weight from 8 to 1632 gm and the slope of the length-weight regression was 3.090. The ages of fish collected in August ranged from 2 to 13 years. This sample did not include smaller size-classes of fish (<100 mm fork length).

Largescale sucker

The sample of largescale suckers ($n=225$) ranged in length from 26 to 593 mm fork length. Larger fish dominated the length-frequency distribution with the primary modal peak being approximately 450 mm (Figure 3.4). The length-weight regression slope was 3.045, which was similar to the slope generated for longnose sucker. The ages of fish sampled in August ranged between 2 and 17 years. As for longnose sucker, the aged sample did not include smaller size-classes of fish (<100 mm fork length).

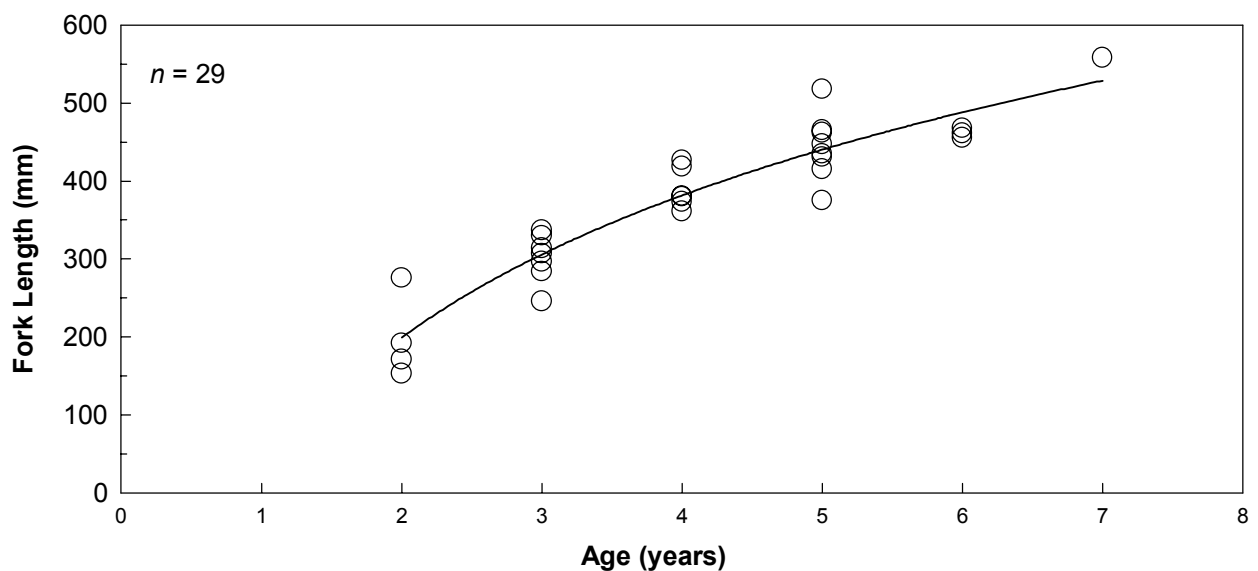
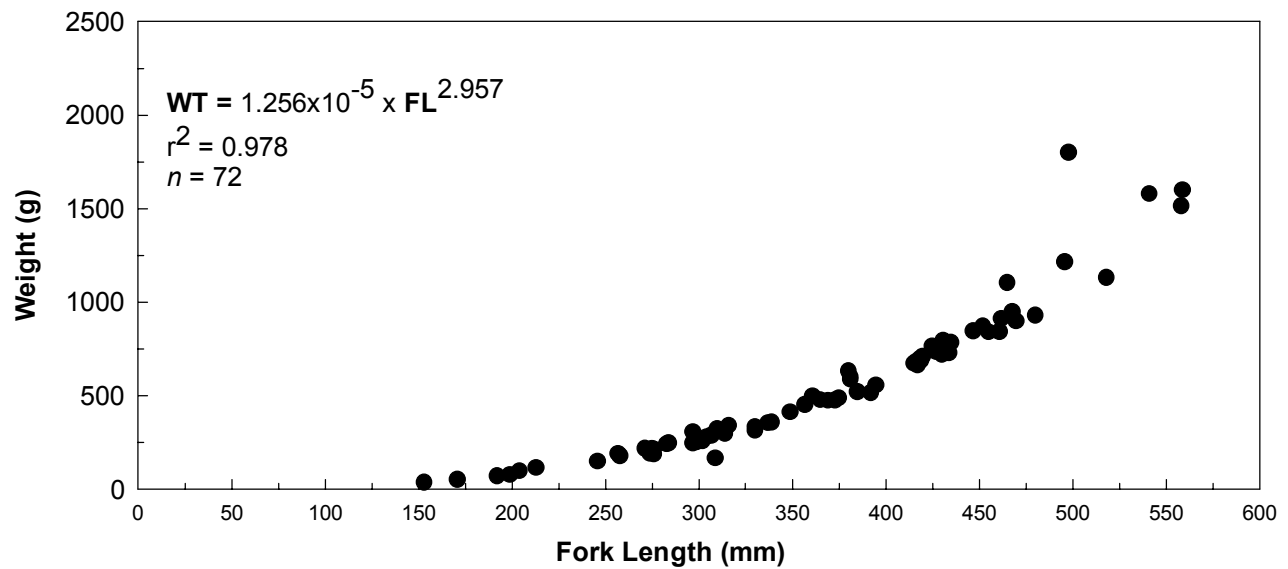
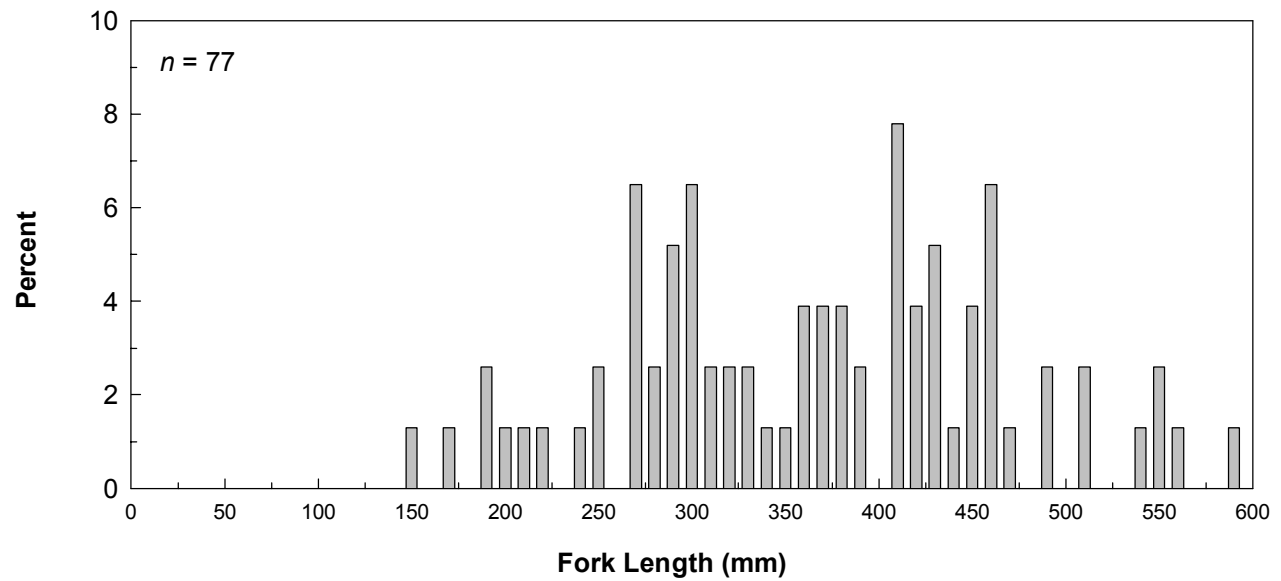


Figure 3.2 Length-frequency distribution, length-weight and length-at-age of bull trout sampled during Phase I of the Peace River Fish Community Indexing Program, 2001. Age data collected in August; best fit regression curve for age-length relationship generated using a two-parameter logarithmic equation $[y = a \cdot \ln(x - x_0)]$.

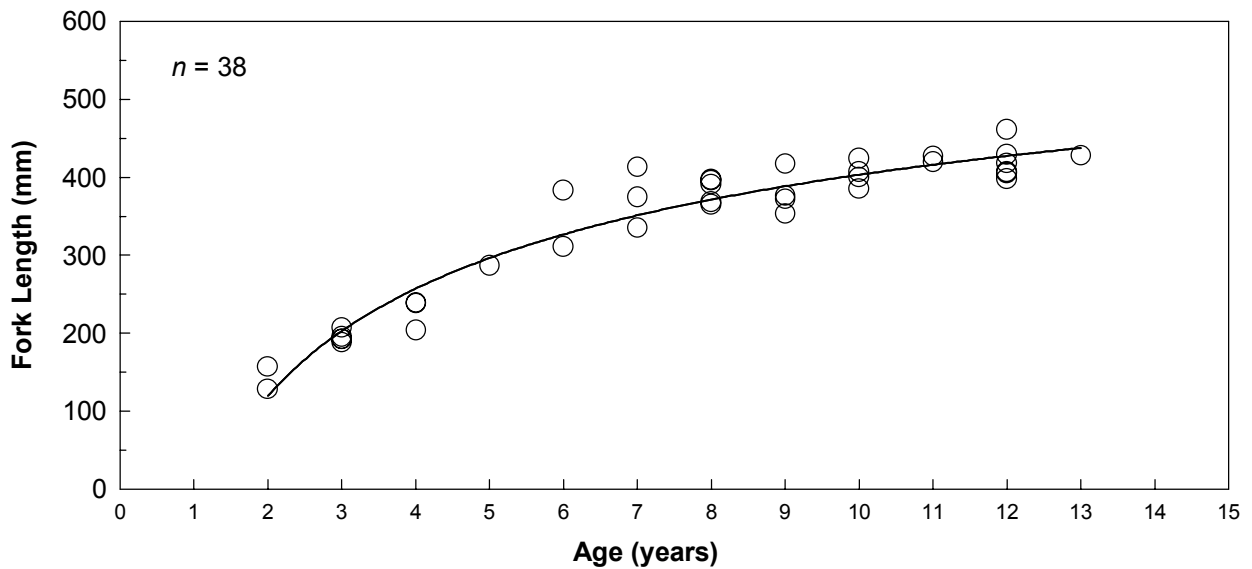
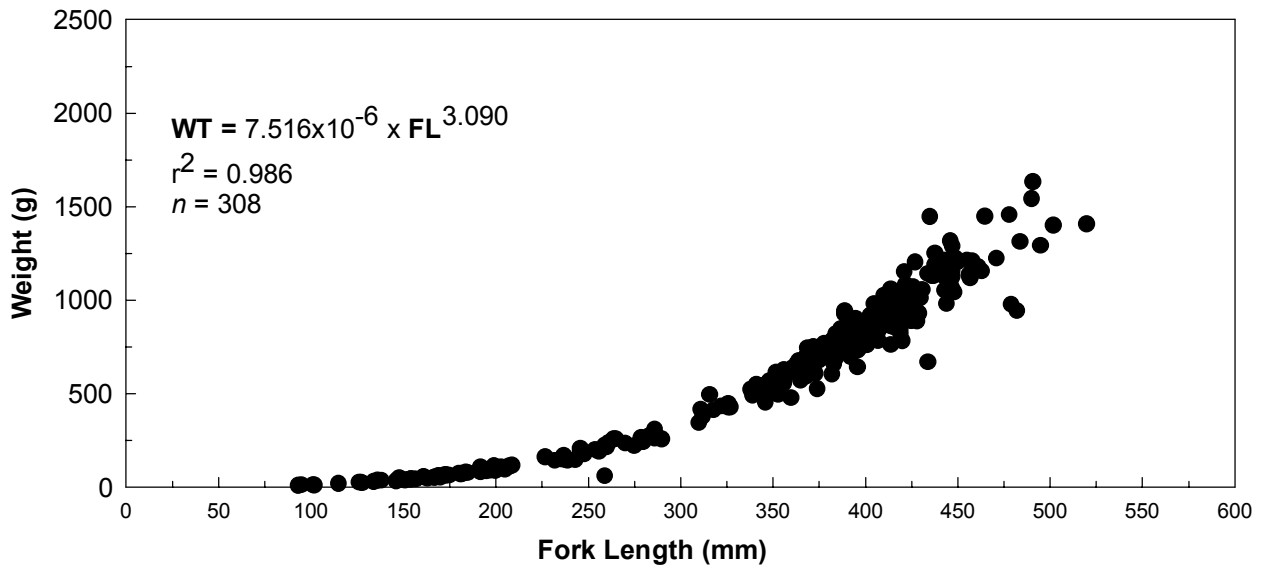
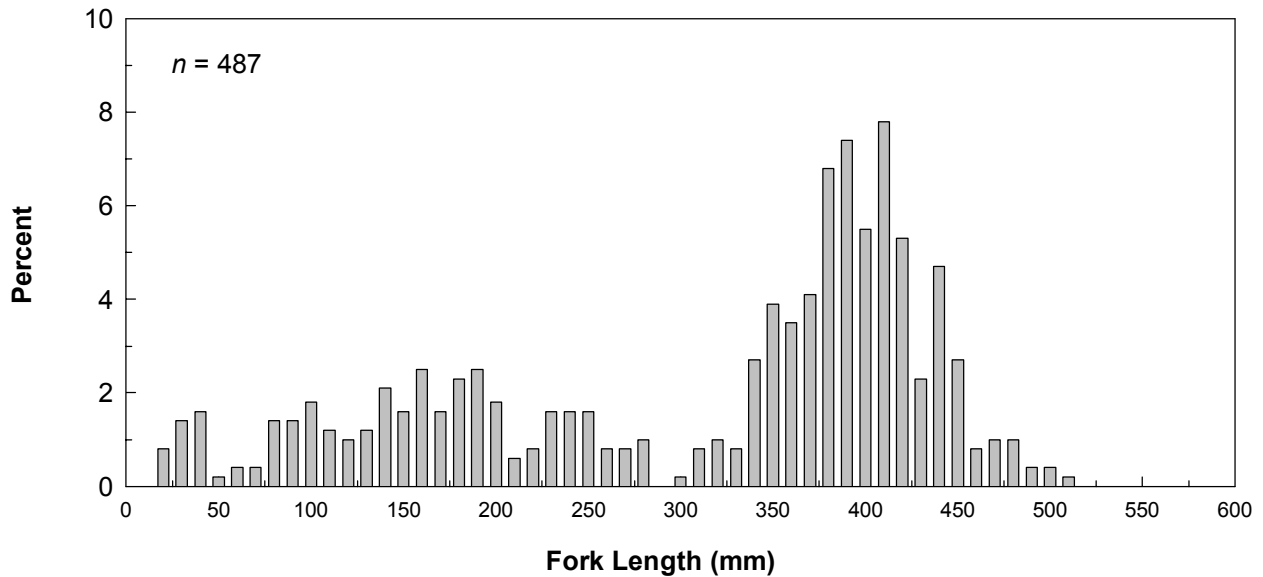


Figure 3.3 Length-frequency distribution, length-weight and length-at-age of longnose sucker sampled during Phase I of the Peace River Fish Community Indexing Program, 2001. Data collected in August; best fit regression curve for age-length relationship generated using a two-parameter logarithmic equation $[y = a \cdot \ln(x - x_0)]$.

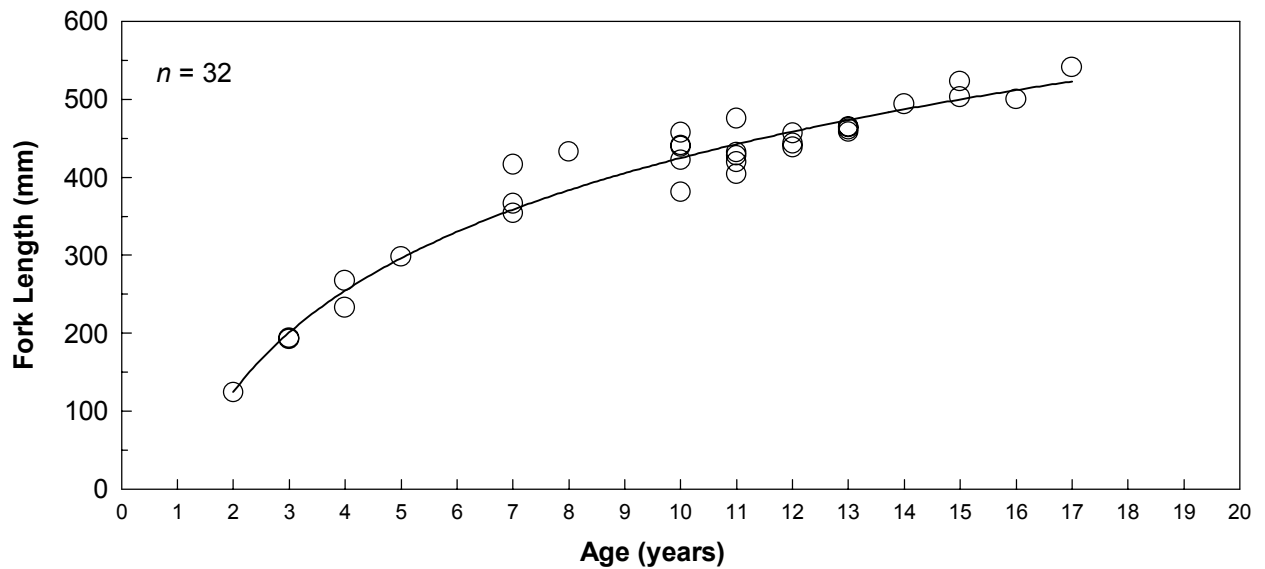
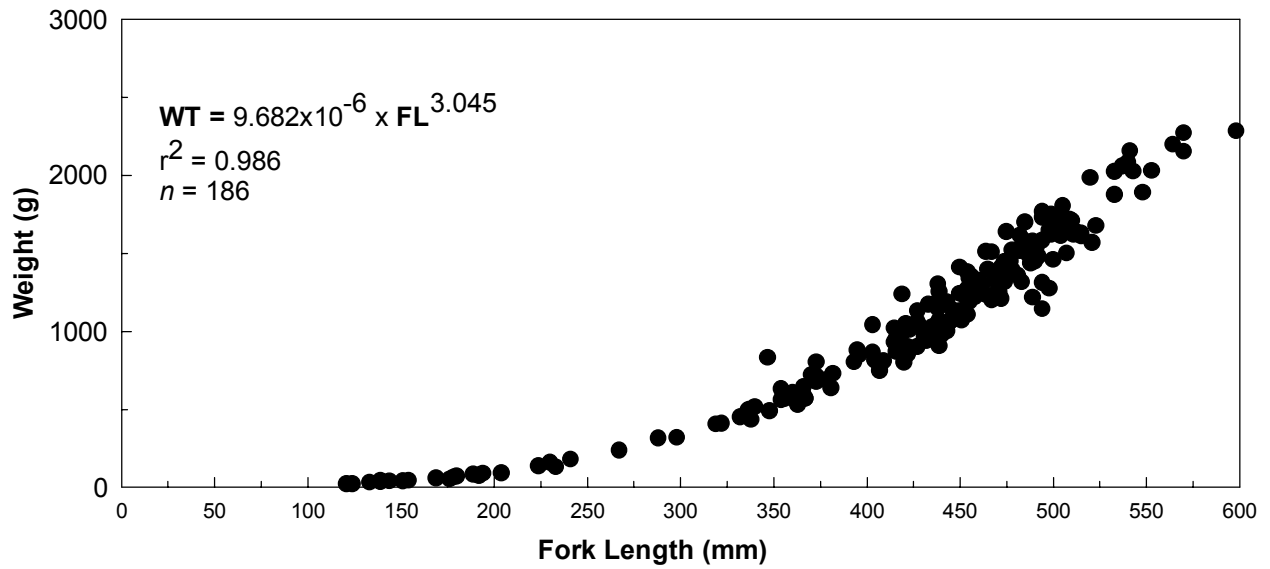
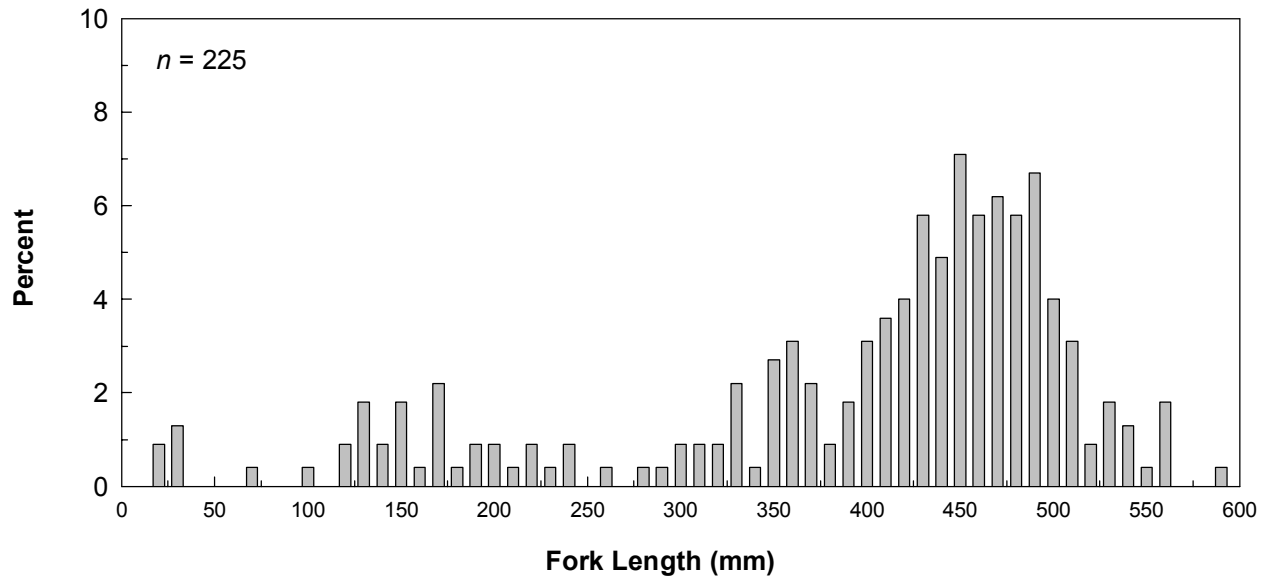


Figure 3.4 Length-frequency distribution, length-weight and length-at-age of largescale sucker sampled during Phase I of the Peace River Fish Community Indexing Program, 2001. Data collected in August; best fit regression curve for age-length relationship generated using a two-parameter logarithmic equation [$y = a \cdot \ln(x - x_0)$].

3.2.5 Listed Species

An objective of the Phase I studies was to document the distribution of four listed species that may occur in the Peace River Study Area. Information was collected for three of these species: bull trout, goldeye and spottail shiner. A fourth, pearl dace, was not recorded during the present study.

Bull trout were recorded in all four sample zones in the mainstem river during August and October (Figure 3.5), but this species tended to be more numerous in upstream zones. Spottail shiner also was widely distributed from zones 1 to 3 during August and October. This species was recorded in the lower sections of tributaries, as well as in tributary confluences and protected back channels in the mainstem river. The only listed species that exhibited a restricted distribution was goldeye. This species was recorded only during August and was found only in Zone 1.

3.3 EVALUATION OF MONITORING TOOLS

3.3.1 Biological Characteristics

Biological characteristics, such as age-cohort analysis, body condition, and growth rate are parameters that potentially can be used to monitor the health of the Peace River fish community. Mountain whitefish was used to evaluate this parameter because the species is a good candidate for monitoring as follows:

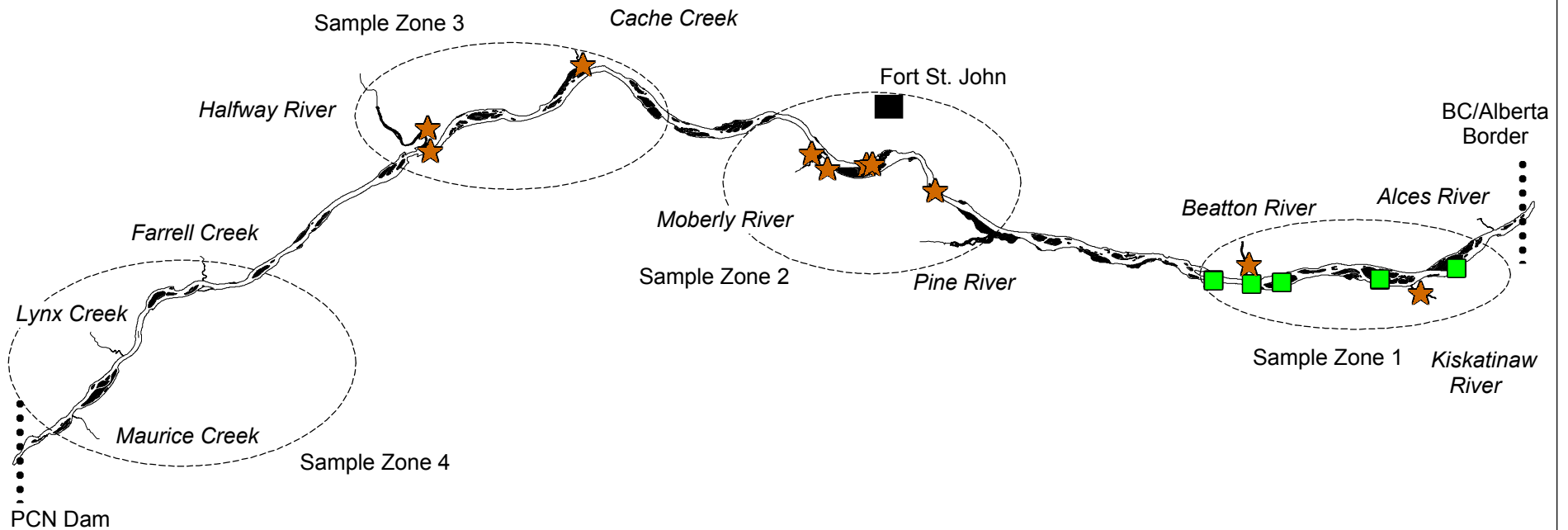
- The species is numerous and widespread in the study area, which facilitates sample collection.
- Mountain whitefish is one of the few species that completes all of its life requisites in the mainstem Peace River, which would make it a sensitive to flow related change.

3.3.1.1 Age-cohort analysis

Age-cohort analysis was not examined during Phase I because it was assumed that the effectiveness of this technique is a function of sample size, standardization of the sampling methods, and collection of a representative sample. The first two criteria can be met, but there is an issue regarding collection of a representative sample. Age 0 and Age 1 mountain whitefish are smaller-sized fish that are typically under-represented due to ineffective capture by boat electrofishing.



| Legend | |
|--------|------------------------|
| | Bull trout |
| | Goldeye (n=5) |
| | Spottail shiner (n=10) |



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Figure 3.5
Capture Locations for Listed Species
Peace River Study Area, 2001.

Although age-cohort analysis was not undertaken during the present study, length-frequencies of fish in each zone and session were examined to ascertain whether there were spatial or temporal differences that could bias the sample. If size-distributions were not consistent, then the sample would have to be stratified.

Length-frequency distributions of mountain whitefish appear to differ between sample zones (Figure 3.6). Small fish <250 mm fork length account for a larger percentage of the sample in downstream relative to upstream zones. Also, the occurrence of very large fish >400 mm fork length also appears to be greater in downstream zones. This indicates that the size distribution of mountain whitefish is not consistent between sample zones.

A visual comparison of the data also suggests that there are seasonal differences in length-frequency distributions. A greater percentage of large fish >250 mm fork length occurs in the October sample compared to the sample collected in August. This change may have been related to increased vulnerability of spawning mountain whitefish to capture by boat electrofishing or it may simply reflect seasonal differences in habitat use. Regardless of the reason, there appears to be a seasonal effect on the size distribution of mountain whitefish.

Based on this information, samples of mountain whitefish collected for age-cohort analysis should be stratified by sample zone and season to account for potential differences in the age distribution of sampled fish.

3.3.1.2 Body Condition

The length-weight relationship of fish frequently is used to compare the effect of environmental change on the health of a fish population. Condition factors (e.g., Fulton's Condition) are typically used for this purpose, but there are statistical problems inherent to this approach (Cone 1989). As such, body condition of sample populations was examined using the linear least-squares regression method comparing weight to length. A random sample of weights was selected from mountain whitefish in the dominant size class of the population (i.e., 250 to 350 mm fork length). The analysis did not include fish from Zone 1 because a sample of sufficient size could not be obtained ($n=33$).

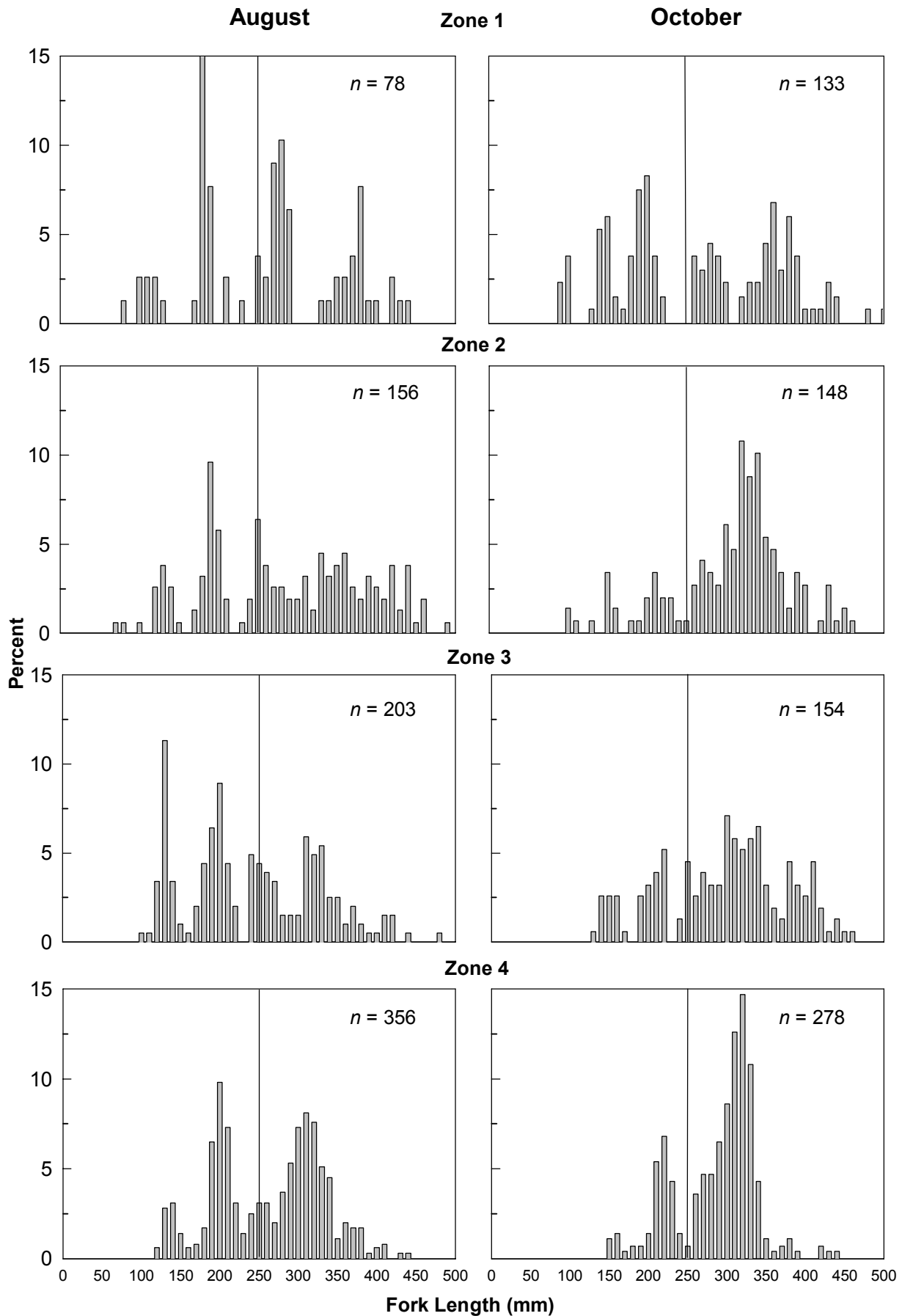


Figure 3.6 Length-frequency distributions of mountain whitefish sampled during Phase I of the Peace River Fish Community Indexing Program, 2001 (Fork length in 10 mm intervals from 0 to 500 mm; vertical line represents 250 mm).

A comparison of mountain whitefish mean weights suggests that there may have been a sample zone effect (Table 3.4). During August, the maximum difference was 13.8 g (Zone 3 versus Zone 4), while in October the maximum difference was 25.7 gm (Zone 3 versus Zone 4). To assess whether these differences were statistically significant, attempts were made to adjust the data for the influence of fish length on weight. For the August data, the analysis indicated that slopes of the length-weight regression lines were different, which precluded testing for zone effect on weight (Figure 3.7). However, the results of this analysis suggest that the growth rates of mountain whitefish, in terms of weight gain per unit length, differed between zones during August.

Table 3.4 Mean weight of mountain whitefish sampled during Phase I of the Peace River Fish Community Indexing Program, 2001.

| Sample Area | August | | October | |
|-------------|--------|-------|---------|-------------------------|
| | Sample | Mean | Sample | Mean |
| Zone 2 | 33 | 316.2 | 33 | 338.1 (AB) ^a |
| Zone 3 | 33 | 308.3 | 33 | 315.5 (A) |
| Zone 4 | 33 | 322.1 | 33 | 341.2 (B) |

^a Different letter designates statistical difference; see Section 2.3.2 for description of methods.

The length-weight slopes were not statistically different in October suggesting that this discrepancy in fish growth had disappeared. The subsequent analysis of the adjusted data showed that the weight of sampled mountain whitefish was statistically different between zones 3 and 4 (Table 3.4).

The data also show that fish within each zone gained weight between August and October. This increase ranged from 7.2 g in Zone 3 to 21.9 g in Zone 2. This trend was not surprising for this fall spawning species.

Based on this limited data set (i.e., one year of data), the results indicated that the body condition of sampled mountain whitefish differed between zone and season. These results may have been due to differences in environmental conditions such as temperature gradient or food availability, or there may be genetic differences between metapopulations. Although some of these differences are statistically significant it is not known whether they are biologically significant. However, the results indicate that the monitoring program should be designed to account for differences in zone and season.

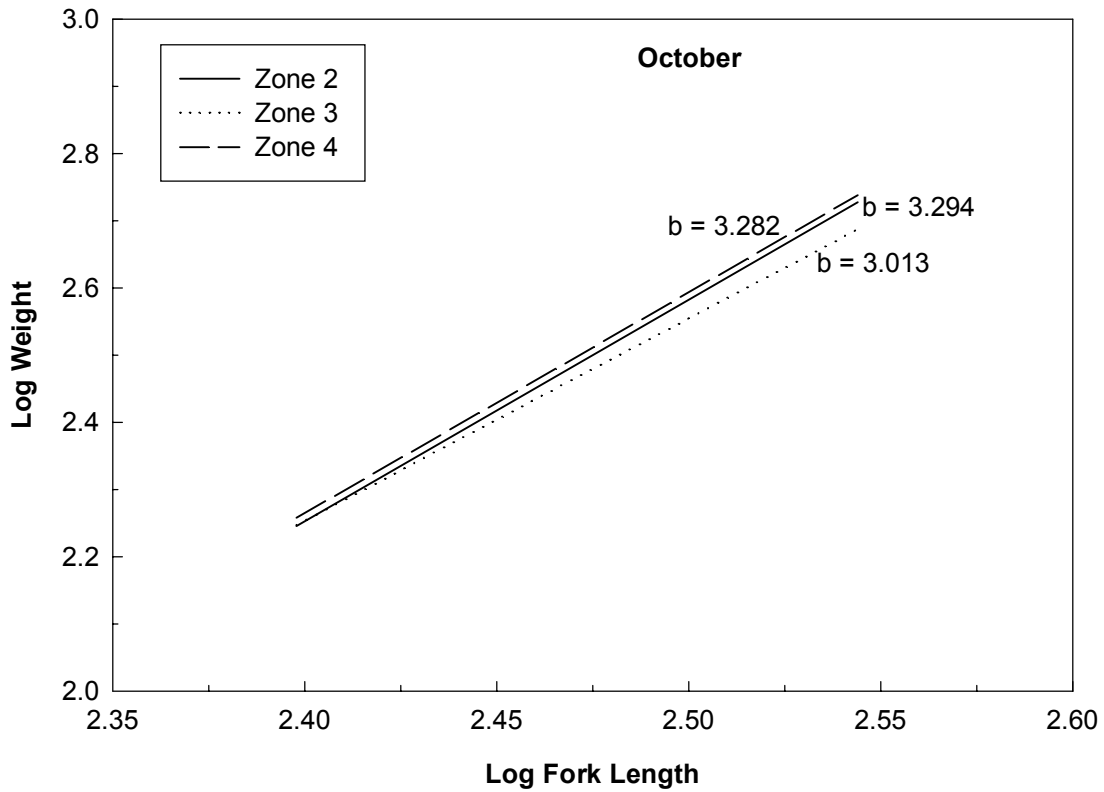
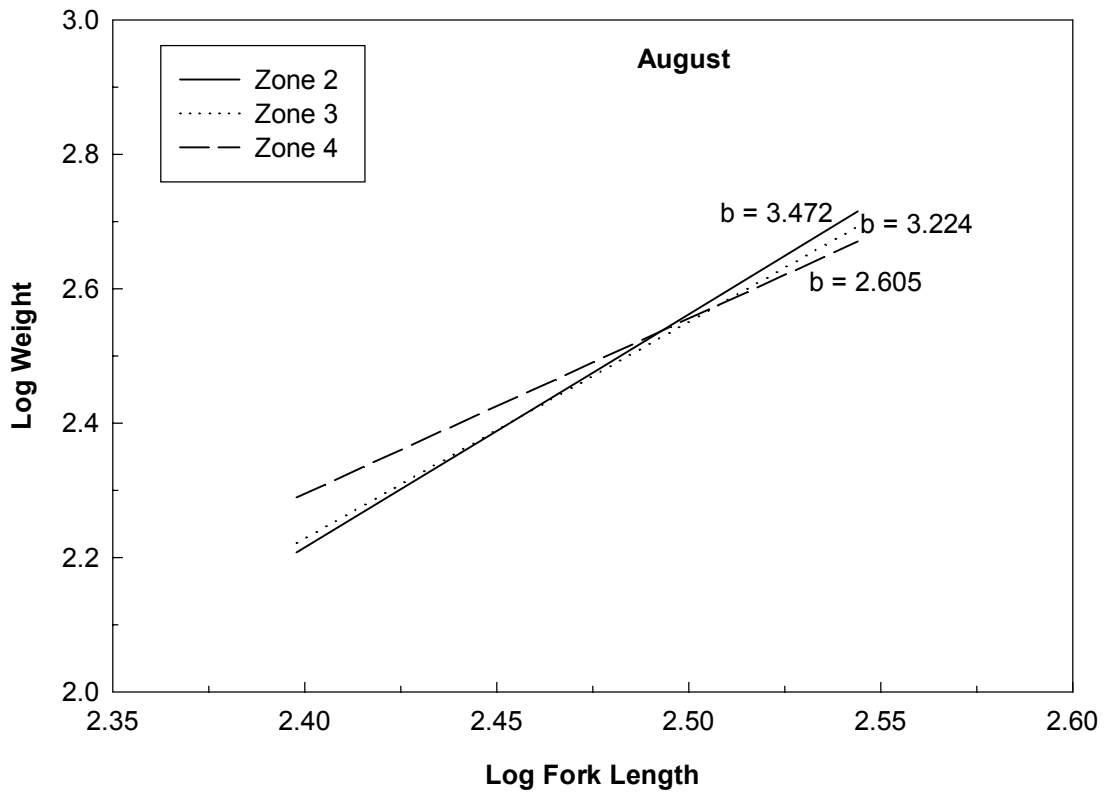


Figure 3.7 Length-weight relationship and slope (b) of the regression line for mountain whitefish sampled during Phase I of the Peace River Fish Community Indexing Program, 2001 (Based on a sample of 33 fish from the 250 to 350 mm size cohort).

3.3.1.3 Growth Rate

Differences in growth rate can be used to monitor changes in a fish population. This typically involves tracking seasonal or yearly changes to one or more age cohorts. A sufficient sample of aged fish was not available to assess whether there were spatial differences in mountain whitefish growth rate. Instead, length-frequency distributions were examined to identify modes among the smaller fish, which corresponded to the younger age-groups. Using this method, it was assumed that fish between 120 and 160 mm fork length represented Age 1 individuals during August (Figure 3.6).

The mean fork length of Age 1 mountain whitefish was 134.7 mm in Zone 2, 135.2 mm in Zone 3, and 141.7 mm in Zone 4 (Table 3.5). Analysis of these data indicated that the difference was statistically significant between Zone 4 and the remaining two areas. The reasons for this difference are not clear, and these results should not be interpreted as an indication of biological importance. As for body condition, these results indicate that if growth rate information is to be used as a monitoring tool, area effects need to be addressed in the sampling design.

Table 3.5 Mean fork length (mm) of Age 1 mountain whitefish sampled in August during Phase I of the Peace River Fish Community Indexing Program, 2001.

| Sample Area | Sample | Mean Length (" SE) |
|-------------|--------|------------------------------|
| Zone 2 | 15 | 134.7 " 2.4 (A) ^a |
| Zone 3 | 39 | 135.2 " 1.2 (A) |
| Zone 4 | 29 | 141.7 " 1.7 (B) |

^a Different letter designates statistical difference; see Section 2.3.2 for description of methods.

3.3.2 Abundance Indices

The abundance index, or catch rate, is a common tool used to quantify the relative abundance of fish in large fluvial systems such as the Peace River. The number of fish captured per unit effort (CPUE) using a particular technique provides an index of abundance for species, area, or season comparisons. This tool generally requires less effort than methods used to quantify the absolute abundance of fish (e.g., mark-recapture studies). As such, abundance indices potentially would be a good tool to monitor changes in the Peace River fish community.

Unfortunately, use of abundance index as a monitoring tool has two primary limitations. First, it is often difficult to meet the assumption that fish catchability is constant. For the sampling methods appropriate for use in the Peace River, catchability is often influenced by species, life-stage, fish density, habitat, and sampling conditions (Pugh 1998; Sammons and Bettoli 1999; McNerny and Cross 2000). As such, it is important to identify confounding factors that influence catchability.

The second limitation to use of abundance index as a monitoring tool is the high variation associated with catch rates generated for fish populations in large fluvial systems. The variation decreases the precision of the data, which reduces the ability to detect change. This variation is caused by changes to sampling effectiveness as discussed above, as well as inherent characteristics of the fish population. Fish in large rivers often exhibit clumped distributions and low densities, as well as seasonal differences in habitat use. In order to detect a change in fish abundance steps need to be taken to reduce sample variation.

Small-fish Component

The results of the small-fish sampling program during the present study were very similar to findings by RL&L (2001). Very low catch rates were often recorded and the fish exhibited a patchy distribution. These characteristics prevented an evaluation of factors that influence small-fish catch rates during the present study, and ultimately, they preclude use of small-fish abundance as a monitoring tool. For these reasons, small-fish catch rates were not examined.

3.3.2.1 Factors that Affect Abundance Indices

This section examined the influence of several factors on fish catch rate (Table 3.6). Primary factors of interest included spatial (zone), temporal (season), and habitat effects. Other factors such as water clarity, discharge, sample period, light intensity, water temperature, water conductivity, sampler effectiveness, and sampling protocol also were evaluated. Of these, the discussion will be restricted to water clarity and discharge because the remainder either had no measurable effect (Appendix E) or were standardized prior to the field program. Finally, data parameters such as data transformation and the types of information used to generate catch rates were analyzed to assess whether sample variation could be reduced.

The analysis was restricted to catch rates of the dominant large-fish species that were encountered because these fish were the most promising candidates for monitoring. These included Arctic grayling (ARGR), bull trout (BLTR), rainbow trout (RNTR), longnose sucker (LNSC), largescale sucker (LSSC), and mountain whitefish (MNWH). Finally, the analyses focused on boat electrofishing results because this method was the most effective large-fish capture technique.

Table 3.6 Factors evaluated to ascertain their effect on catch rate during Phase I of the Peace River Fish Community Indexing Program, 2001.

| Factors Evaluated | |
|--------------------------------|--------------------------------------|
| River zone | Water conductivity ^a |
| Season | Water velocity ^b |
| Habitat | Water depth ^b |
| Water clarity | Substrate type ^b |
| Discharge | Bank configuration ^b |
| Light Intensity ^a | Physical instream cover ^b |
| Sample period ^a | Sampler effectiveness ^c |
| Water temperature ^a | Sampling protocol ^c |
| | Data parameters |

^a No measurable effect.

^b Incorporated into habitat variable.

^c Standardized.

Zone and Season Effects

Species-specific catch rates generated by boat electrofishing exhibited distinct spatial trends during both sampling sessions (Figure 3.8). Bull trout, mountain whitefish, and rainbow trout increased in abundance from downstream to upstream (Zones 1 to 4). Other species tended to be more abundant in the middle (Arctic grayling) and/or lower portions (longnose sucker) of the study area. Largescale sucker was the only fish that did not exhibit a consistent spatial trend. This species appeared to be more abundant in Zone 1 during August, but the opposite results occurred in October.

In general, most fish species were more abundant during October compared to August. This was true for bull trout, rainbow trout, longnose sucker, and mountain whitefish. Arctic grayling was an exception to this pattern. In this case, this species tended to be more abundant in zones 3 and 4 in August. In October, the catch rate in Zone 2 was much higher and much lower in Zone 4. Seasonal movements by Arctic grayling in the Peace River watershed may explain this discrepancy. Adults may undertake feeding movements to upstream zones during summer. In fall, the dispersal of juvenile fish from rearing tributaries (e.g., Moberly River system) into the Peace River could explain the higher catch rate recorded in Zone 2. There appeared to be no pattern in temporal abundance for largescale sucker.

These results suggest that sampling in the Peace River Study Area should be stratified by sample zone and season to account for spatial and temporal differences in catch rate. This strategy would be effective for most species except largescale sucker.

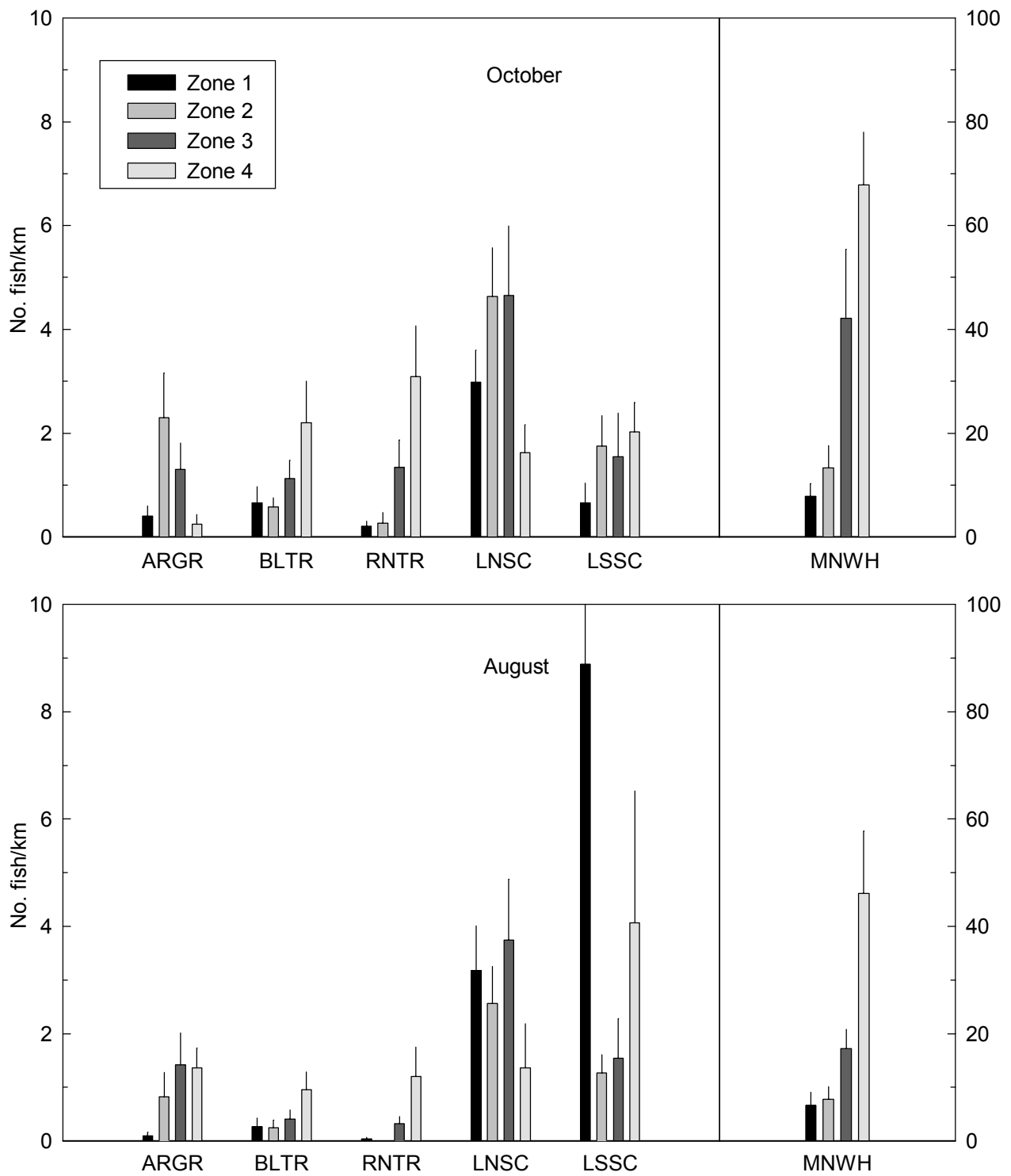


Figure 3.8 Mean catch rate (\pm SE) of selected fish species recorded during the Phase I of the Peace River Fish Community Indexing Program, 2001 (See Table 3.1 for species labels).

Habitat Effects

Sampling during the field program of the present study was stratified by habitat. Based on information obtained during previous investigations on the Peace River by study personnel (Pattenden *et al.* 1990, 1991; RL&L 2001), the physical characteristics of the channel margin were differentiated into six habitat categories (Table 3.7). Four of these categories represented differences in the amount of physical cover (cover versus no cover) and bank configuration (gradual slope/shallow water versus steep slope/deep water). The remaining two categories represented unique habitat features, which were tributary confluence and back channel. The habitat category sample sizes available for analyses in each sample zone were small (Table 3.7). As such, the analysis was restricted to the SFN and SFC categories, which generally had the highest sample sizes ($n \geq 4$). This approach was justified because catch rates in the other habitat categories were generally low and variable (Appendix D).

Table 3.7 The number of habitat categories sampled during Phase I of the Peace River Fish Community Indexing Program, 2001.

| Habitat Categories ^a | Zone 1 | Zone 2 | Zone 3 | Zone 4 | Total |
|---------------------------------|--------|--------|--------|--------|-------|
| SFN | 4 | 3 | 5 | 7 | 19 |
| SFC | 4 | 4 | 5 | 4 | 17 |
| SLN | 2 | 4 | 0 | 0 | 6 |
| SLC | 2 | 2 | 1 | 0 | 5 |
| CON | 2 | 2 | 1 | 3 | 8 |
| BAC | 0 | 2 | 1 | 0 | 3 |

^a See Table 2.1 for definitions.

To ascertain what effect habitat category had on catch rate, data differentiated by habitat were compared to data that had not been differentiated. Because the design of the present study only collected information from discrete habitat units, data from RL&L (2001) was used to represent nondifferentiated samples (NOD). That investigation did not confine sampling to discrete habitat types. Catch rate information collected from Zone 3 during October were used for the analysis.

The results of the comparison suggest that fish abundance is influenced by the different sampling protocols (Figure 3.9). Arctic grayling, bull trout, rainbow trout, longnose sucker, and longnose sucker catch rates were much lower in the NOD sample sections. The only exception was mountain whitefish. These results may reflect yearly difference in catch rate, but this is unlikely. The methods used, sampling conditions, and sampler experience were similar between studies. As such, stratifying sample sections into habitat categories probably influences catch rate.

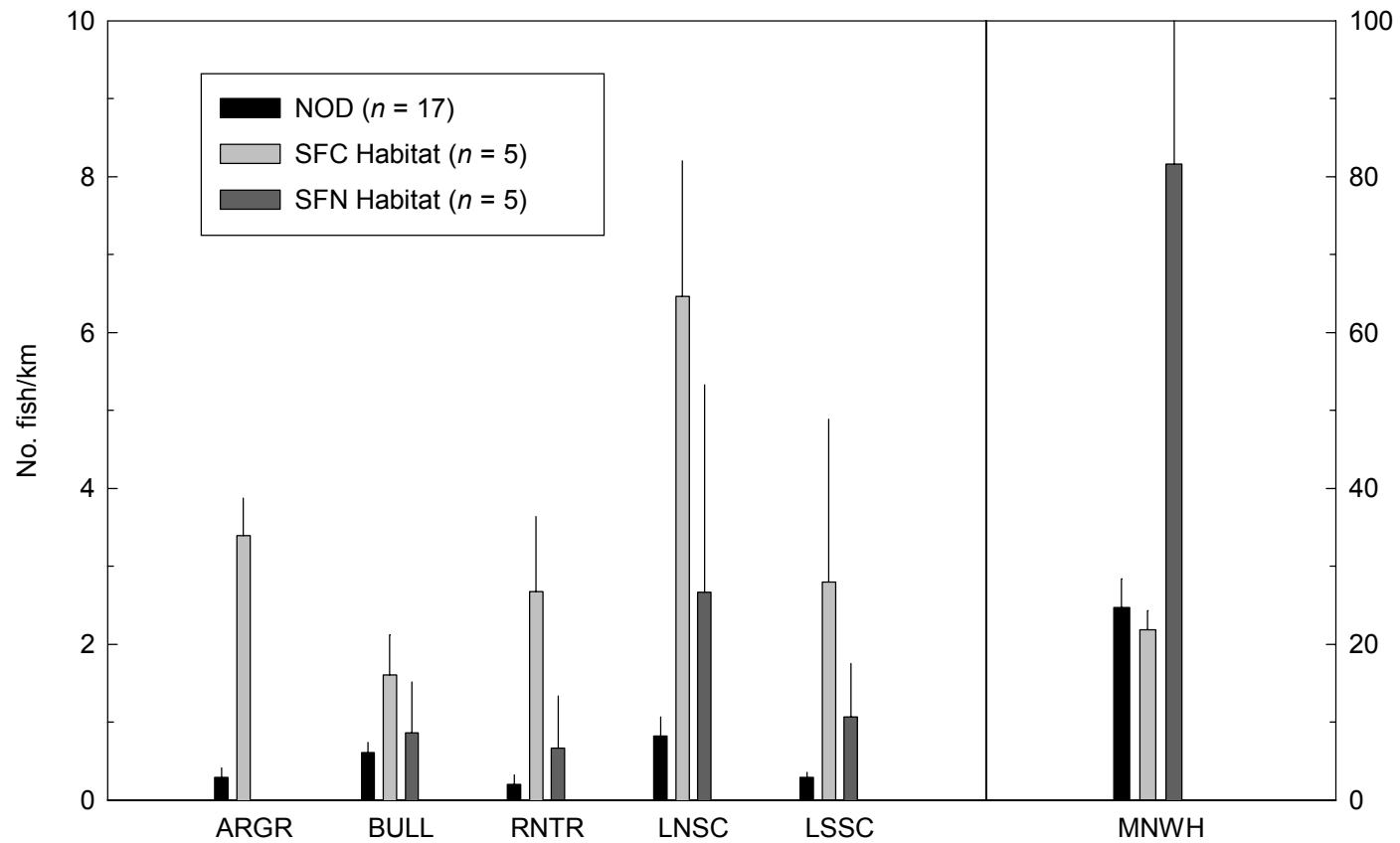


Figure 3.9 Mean catch rate (\pm SE) of selected fish species based on different sampling protocols used in Zone 3 of the Peace River Fish Community Indexing Program, 2001. Protocols involved sampling discrete habitat categories (present study) versus no differentiation (NOD) between habitat categories [RL&L 2001]; see Table 2.1 for habitat definitions.

Catch rates for all species also were different between habitat categories. For Arctic grayling, bull trout, rainbow trout, longnose sucker, and largescale sucker, catch rates were much higher in sections containing physical cover (SFC) compared to sections without physical cover (SFN). The opposite was true for mountain whitefish. Catch rates were much higher in the SFN category compared to the SFC category. These results indicate that fish species in the mainstem Peace River exhibit distinct habitat preferences based on the presence of physical cover.

The standard errors associated with the habitat category estimates appeared to be higher than estimates derived from the NOD samples, which is an indication that stratifying sampling by habitat category may not remove unwanted variation (Figure 3.9). Because it is important to maintain sample precision, protocols that increase variability should be avoided.

Sample variation was dependant on species and habitat category (Table 3.8). For most species, the coefficient of variation (SD/mean x 100) was greater in the SFN sample compared to the NOD sample. The magnitude of this difference ranged from 22% for mountain whitefish to 86% for bull trout. Rainbow trout was the only species that showed a reduction between the two groups (10%). Comparisons between the SFC category and the NOD group were very different. For most species, the coefficient of variation decreased and the reduction ranged from 21% (bull trout) to 81% (Arctic grayling). Largescale sucker was the only species that did not exhibit a lower sample variation in the SFC habitat category.

Table 3.8 Effects of habitat category on the precision of catch rates^a during Phase I of the Peace River Fish Community Indexing Program, 2001.

| Species | Coefficient of Variation | | | Percent Change in Variation from NOD | |
|--------------------|--------------------------------------|--------------------------------------|-------------------------|--------------------------------------|----------------|
| | NOD ^b Sample (n=17) | SFN Habitat ^c (n=5) | SFC Habitat (n=5) | SFN Habitat | SFC Habitat |
| Arctic grayling | 1.706 | - | 0.318 | - | -81 |
| Bull trout | 0.895 | 1.668 | 0.711 | +86 | -21 |
| Rainbow trout | 2.494 | 2.236 | 0.805 | -10 | -68 |
| Largescale sucker | 1.061 | 1.439 | 1.675 | +36 | +58 |
| Longnose sucker | 1.262 | 2.236 | 0.603 | +77 | -52 |
| Mountain whitefish | 0.608 | 0.740 | 0.245 | +22 | -60 |

^a Data collected in Zone 3 during October used for the analysis.

^b No habitat differentiation; based on data collected by RL&L (2001).

^c See Table 2.1 for habitat category definitions.

Based on these findings, catch rate and the associated variation can be modified by stratifying boat electrofishing sections by habitat category. For most species, higher and more precise abundance indices result when habitats characterized by physical cover are sampled.

Water Clarity

Water clarity can affect sampling effectiveness during boat electrofishing. In general, reduced visibility will decrease netter effectiveness resulting in lower catch rates. Water clarity can also influence habitat use by fish. Very low water clarity may permit light sensitive species to enter shallow water habitats making them more susceptible to capture.

Water clarity in the mainstem Peace River varied between sample zones (Table 3.9). In August, there was a distinct upward trend in visibility from Zone 1 to Zone 4 (Figure 3.10), with mean water clarity increasing from 47 to 168 cm. This pattern also occurred in October, but the trend was not linear. Mean values increased from 61 cm (Zone 1) to 101 cm (Zone 3), but then remained similar in Zone 4 (96 cm). Water clarity also varied between seasons. In zones 1 and 2, mean values were higher in October. In upstream zones they were similar (Zone 3) or were lower in October (Zone 4). With the exception of Zone 4 in October, the spatial and temporal trends in water clarity can be explained by tributary contributions of suspended sediments into the mainstem Peace River. In August, tributaries were turbid, (Appendix B), which resulted in decreased water clarity downstream of their confluences. By October most of the tributaries were clearer and had lower water flows, which reduced the contribution of suspended sediments into the mainstem river.

Table 3.9 Water clarity (cm) during Phase I of the Peace River Fish Community Indexing Program, 2001.

| Session | Zone | Mean | SE | Sample ^a | Range | |
|---------|------|----------|----|---------------------|---------|---------|
| | | | | | Minimum | Maximum |
| August | 1 | 47 ± 8 | 12 | 10 | - | 80 |
| | 2 | 79 ± 6 | 13 | 60 | - | 110 |
| | 3 | 115 ± 16 | 11 | 45 | - | 200 |
| | 4 | 168 ± 5 | 11 | 145 | - | 180 |
| October | 1 | 61 ± 6 | 12 | 42 | - | 85 |
| | 2 | 86 ± 3 | 13 | 75 | - | 100 |
| | 3 | 101 ± 4 | 11 | 90 | - | 123 |
| | 4 | 96 ± 2 | 10 | 85 | - | 105 |

^a Data for tributary confluence and back channels excluded from the summary.

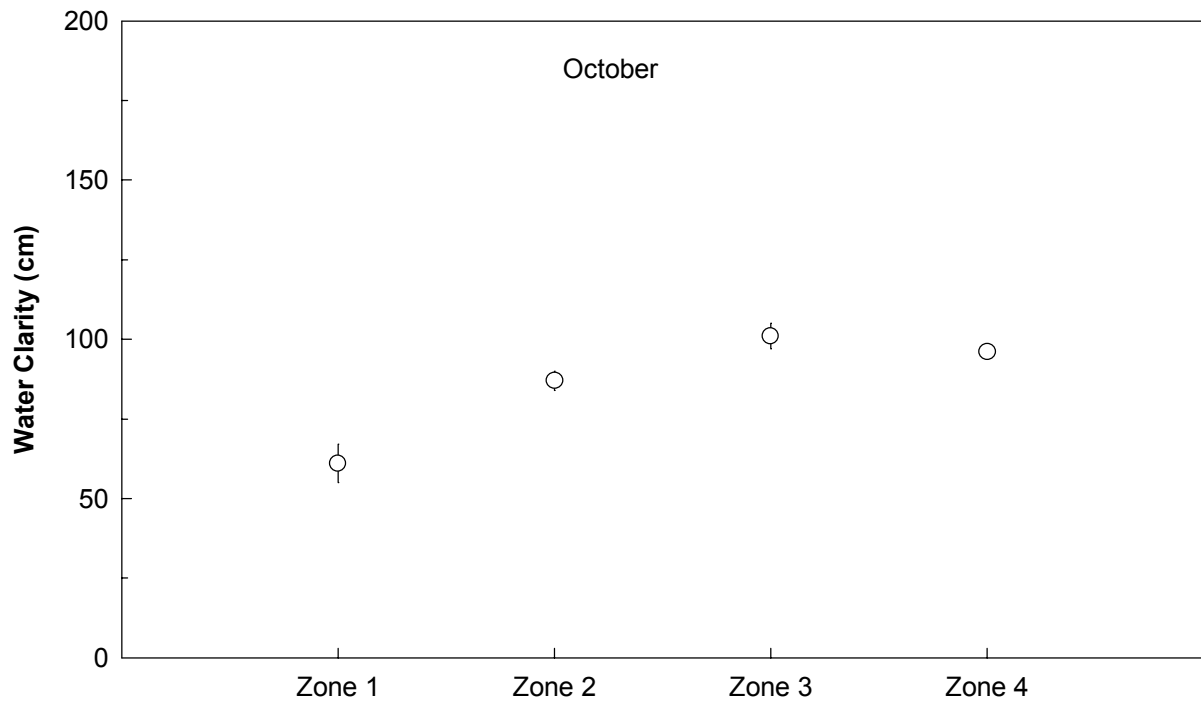
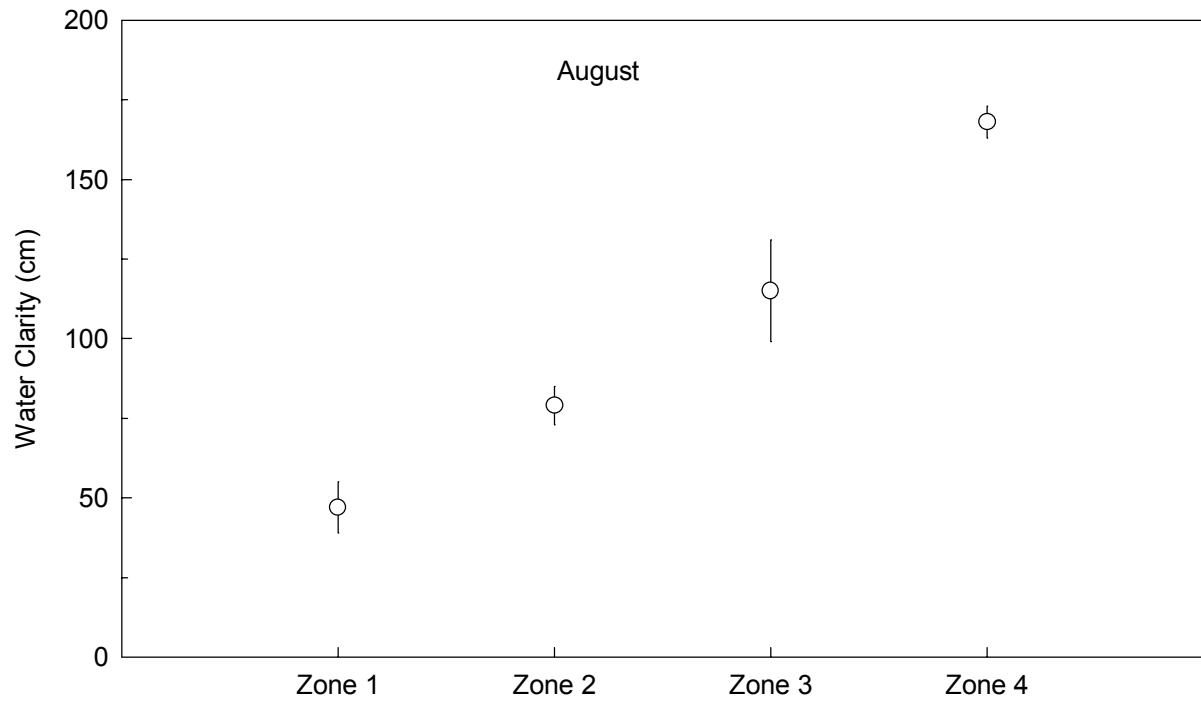


Figure 3.10 Mean water clarity (\pm SE) during Phase I of the Peace River Fish Community Indexing Program, 2001 (Data for tributary confluences and back channels excluded from the summary).

In general, the variation associated with each water clarity estimate was low, as illustrated by the small standard error (Figure 3.10). In most cases, the range of water clarity values was <45 cm. This lack of variability hindered the evaluation of the effect of water clarity on catch rate. The only exception occurred in Zone 3 during August due to the effects of the Halfway River. The range of water clarity values at this site was 155 cm.

This wide range permitted a statistical evaluation of the effect of water clarity on catch rate. For Arctic grayling and rainbow trout, there was a near significant positive correlation between water clarity and catch rate (Table 3.10). These results support the assumption that, at least for these species, catch rate will increase as visibility improves. The opposite results occurred for longnose sucker and largescale sucker. For these two species there was a significant negative relationship between water clarity and catch rate. These ambiguous results indicate that the apparent effects of water clarity are not constant between species.

Table 3.10 Correlation between catch rate and water clarity in Zone 3 in August during Phase I of the Peace River Fish Community Indexing Program, 2001.

| Species | Correlation ^a | P-value |
|--------------------|--------------------------|---------|
| Arctic grayling | +0.552 | 0.100 |
| Bull trout | -0.321 | 0.336 |
| Rainbow trout | +0.554 | 0.077 |
| Mountain whitefish | + 0.386 | 0.241 |
| Largescale sucker | -0.722 | 0.012 |
| Longnose sucker | -0.608 | 0.047 |

^a Pearson's Correlation Coefficient comparing log-transformed data.

These results do not establish a causal relationship between water clarity and catch rate. But, they do indicate that wide variations in water clarity may affect the results. Also, observations by field personnel during the study suggest that water clarity does not begin to have a strong influence on netter effectiveness until visibility is <50 cm. Based on this information, a monitoring program in the Peace River should be designed to account for the effects of water clarity. The most start forward solution is to avoid river sections exhibiting a wide variation in water clarity and restrict sampling to conditions when visibility is >50 cm.

Discharge

Variable discharge in fluvial systems can affect catch rates by modifying fish habitat use and/or sampling effectiveness. At lower discharges fish may be dispersed in available habitats, while at higher discharges they may seek out areas containing physical cover for protection against high water velocities. Sampling effectiveness of boat electrofishing can be influenced by discharge via changes to water velocity. Faster boat speeds associated with higher water velocities tend to increase capture effectiveness because fish are less likely to escape the electrofishing field. Variable discharge also alters water levels, which in turn change the water depth and sampling position in the river channel, both of which can affect sampling effectiveness.

The discharge of the Peace River is influenced by the operating regimes of the W.A.C. Bennett Dam and the PCN Dam generating stations. Both plants are power-peaking facilities that discharge at different rates in response to power demands. During periods of varying power demand flow releases can fluctuate widely on a daily basis. In contrast, flows are maintained at higher levels and are more stable during periods of high power demand.

To ascertain whether discharges during the field program affected catch rate, water level recorder stations were established in each sample zone. The water level data provided an index of discharge at the time of sampling. It should be noted that Station 1 was destroyed during the field program; therefore, the results for Zone 1 represent an extrapolation from Water Survey of Canada (SC) discharge stations (see Section 2.2.3).

The two basic patterns in flow regime (highly variable versus stable) were recorded during the field program (Figure 3.11). In August, the pattern at all stations was depicted by rapid changes followed by periods of static water levels. In contrast, October water levels were higher and were much less variable. The water level data recorded in August also illustrate that the distinct fluctuation is progressively attenuated as the distance from the PCN Dam increases. At Station 4, 14 km downstream of the PCN Dam water level changes were distinct, as were the periods of stable flow at the troughs and peaks of the hydrograph. Fifty-two kilometres downstream, the pattern was less distinct and by zones 2 (98 km) and 1 (127 km) the pattern of variation was much smoother and the periods of static water level were largely absent. This attenuation likely was due to distance from the source, discharge from tributaries, and widening of the river channel.

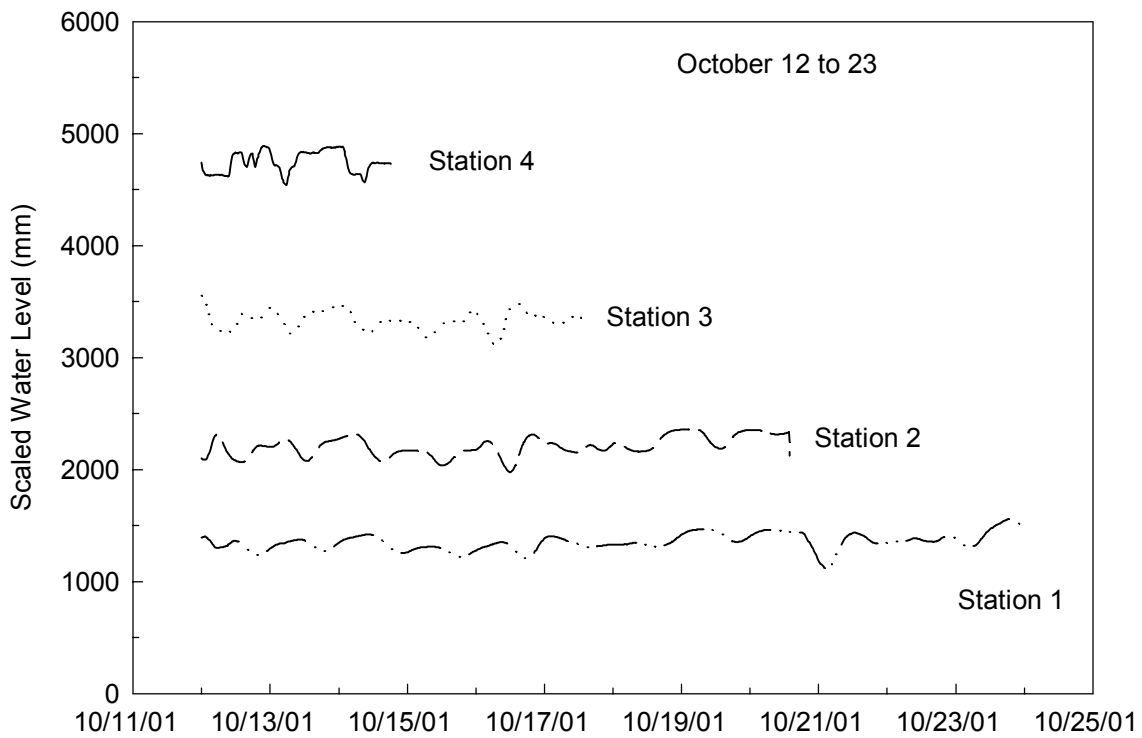
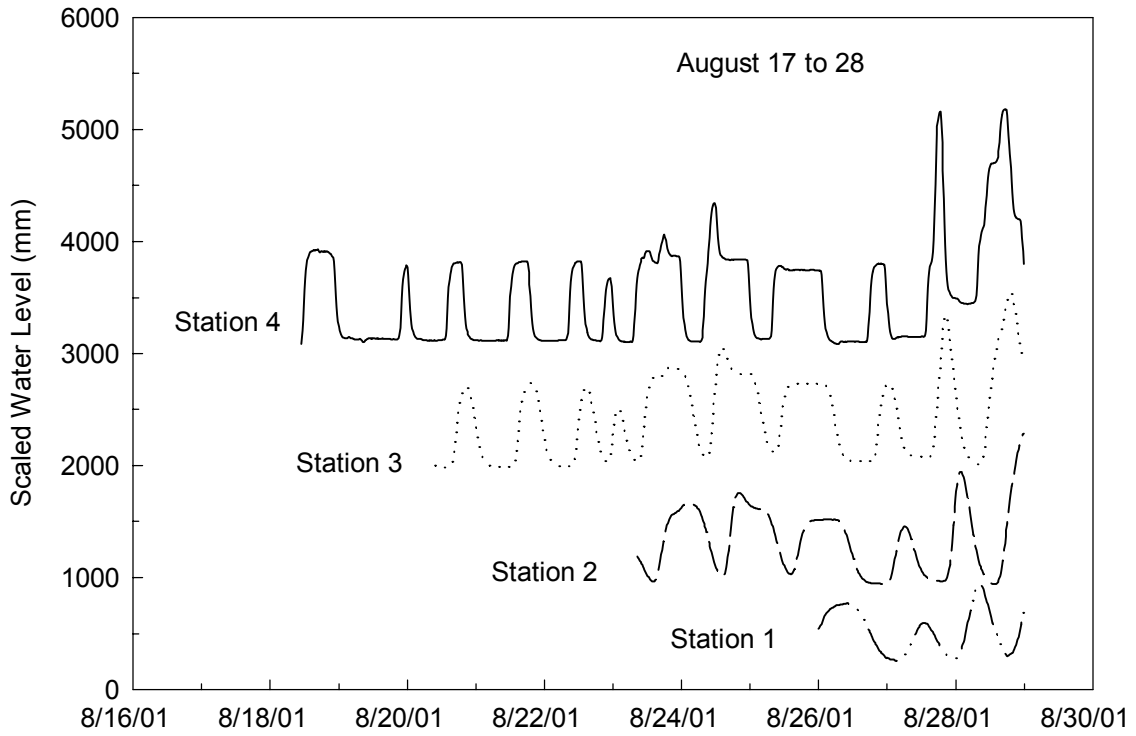


Figure 3.11 Scaled water levels at monitoring stations during Phase I of the Peace River Fish Community Indexing Program, 2001 (Patterns represent measurements at 15 min intervals; see Section 2.2.3 regarding Station 1).

The August data show that the timing of the response to a change in water flow also is dependant on distance (Figure 3.11; Table 3.11). At Station 4, the approximate time required to record a change in water flow from the PCN Dam was 1.2 h. That same change would not be recorded at Station 1 for approximately 12.7 hr. This resulted in differing sampling conditions in each zone during August. In upstream zones 3 and 4 the hydrograph was dominated by rising and/or stable-low water levels. In Zone 2 all sampling occurred during the falling limb of the hydrograph. Conditions in Zone 1 were different again; sampling occurred at rising and/or stable-high water levels. These data indicated that if discharge affected catch rate, the effects would have to be examined in each zone, but sample sizes available for analysis would be small (Table 3.11).

Table 3.11 Summary of hydrographic information and sample sizes available for analysis during sampling during Phase I of the Peace River Fish Community Indexing Program, 2001.

| Session ^a | Station | Distance (km) | Travel Time ^b (h) | Water Velocity ^c (km/h) | No. Samples per Flow Pattern and Habitat Category ^d | | | | | | | |
|----------------------|---------|---------------|------------------------------|------------------------------------|--|-----|------------|-----|--------|-----|-------------|-----|
| | | | | | Falling | | Stable-Low | | Rising | | Stable-High | |
| | | | | | SFN | SFC | SFN | SCC | SFN | SFC | SFN | SFC |
| August | 1 | 127 | 12.7 | 10.0 | 3 | 1 | | | 1 | 2 | | 1 |
| | 2 | 98 | 9.3 | 10.5 | 4 | 3 | | | | | | |
| | 3 | 52 | 5.0 | 10.5 | | | 5 | 4 | | 1 | | |
| | 4 | 14 | 1.2 | 11.5 | | | 3 | 2 | 1 | 5 | | |

^a Data for October not presented because water levels were consistently stable and high.

^b Approximate estimate based on visual assessment of water level patterns.

^c Approximate estimate based on distance and travel time from upstream station; Station 4 results based on comparison to WSC Hudson Hope station data.

^d See Table 2.1 for definitions.

As indicated earlier, catch rates for most species in each sample zone were higher in October compared to August (Figure 3.8). Higher, more stable water levels during October may explain this difference. High, stable flows provide consistent habitat conditions along the channel margins that may attract fish and greater water velocities may cause fish to seek shelter in these areas. Unfortunately, the relative importance of water level versus season on catch rate cannot be discerned using these data.

This problem was addressed by replacing recorded water levels with the proportional change in water level. Data collected in Zone 3 in the SFC habitat category during August and October were examined to ascertain whether there was a relationship between the proportional change in water level and catch rate. It should be noted that although water level data collected in October were considered to represent stable, high conditions they still exhibited variation that allowed comparison to catch rate.

The results suggested that water level could affect catch rate of some species regardless of season (Table 3.12). Bull trout, mountain whitefish, and longnose sucker catch rates were positively correlated to water level and this relationship was statistically significant. Other species including Arctic grayling, largescale sucker, and rainbow trout did not show a significant correlation. These results tend to support the position that higher water level, or discharge, may result in an increase in catch rate for some fish species.

Table 3.12 Correlation between catch rate and proportional change in water level during Phase I of the Peace River Fish Community Indexing Program, 2001.

| Species | Correlation ^a | P-value |
|--------------------|--------------------------|---------|
| Arctic grayling | -0.428 | 0.217 |
| Bull trout | +0.830 | 0.003 |
| Rainbow trout | +0.161 | 0.656 |
| Mountain whitefish | +0.755 | 0.012 |
| Largescale sucker | +0.170 | 0.639 |
| Longnose sucker | +0.664 | 0.036 |

^a Pearson's Correlation Coefficient; sample data ($n=10$) collected in SFC habitat categories in Zone 3 during August and October used for the analysis.

These results may reflect the effects of flow stability rather than differences in flow volume. Water levels in October were more stable compared to conditions in August (Figure 3.11). As such, higher catch rates may have been due to stable water levels. If this were the case, then catch rates during stable flows in August should be greater than catch rates during periods of changing water levels. Mountain whitefish catch data from habitat categories SFC and SFN in zones 3 and 4 were used for this analysis because this was the only species that was abundant in all areas. Catch rates of mountain whitefish were 37.9 fish/km ($n=7$) during stable, low water levels in August compared to 23.0 fish/km ($n=14$) during rising water levels. This difference approached, but was not statistically significant ($P=0.053$, One-tailed T-test using log-transformed data).

These findings provide additional evidence that catch rates may be affected more by flow stability rather than flow volume. More work is required to establish whether this is a correct assumption. Regardless, these patterns indicate that fluctuations in water level are a common occurrence in the Peace River Study Area and that they probably influence catch rate.

Data Parameters

Use of Observed Fish

The type of information used to generate catch rates can affect both the accuracy and precision of the estimate. Boat electrofishing does not result in the capture all fish that are encountered during sampling; therefore, a common practice is to enumerate the number of observed fish and incorporate this information into the catch. This approach can provide a more accurate estimate of actual fish abundance and it ensures that scarce species or life stages are not excluded from the sample. However, including the number of observed fish in the catch may affect the precision of the sample. Field conditions, experience, and observer bias will affect the investigator's ability to correctly identify and count fish. As the number of fish observed increases, these problems are likely exacerbated.

The effect of using observed fish on the precision of catch rate was examined using data collected by RL&L (2001) from zones 3 and 4 during October 1999. These data were used because counting all observed fish was not part of the sampling protocol during the present study. The evaluation consisted of comparing the coefficient of variation of the catch rate estimate generated with and without observed fish.

The results of the comparison indicate that use of observed fish to generate catch rate will increase the sample variation for most species (Table 3.13). This increase could range from 3% (mountain whitefish) to 118% (longnose sucker). In one instance, a slight reduction in variation occurred (-2% for bull trout). Based on this information it appears that inclusion of all observed fish in the catch sample can lead to a decrease in precision.

Data Transformation

Catch rate data for fish species in large rivers often exhibit a skewed sample distribution caused by a large percentage of low values and a sample variation that is proportional to the mean. Transformation techniques are often used to adjust sample data so that they meet the assumptions of parametric statistical analyses (e.g., normal distribution and variance is independent of the mean). A second benefit of transformation is a reduction in sample variation.

Table 3.13 Effects of using observed fish on the precision of catch rates^a during Phase I of the Peace River Fish Community Indexing Program, 2001.

| Species | Coefficient of Variation | | Percent Change in Variation |
|--------------------|--------------------------|---------------------|-----------------------------|
| | Captured | Captured + Observed | |
| Arctic grayling | 2.372 | 2.668 | +12.5 |
| Bull trout | 1.054 | 1.038 | -1.5 |
| Largescale sucker | 1.406 | 2.063 | +46.7 |
| Longnose sucker | 1.310 | 2.862 | +118.5 |
| Mountain whitefish | 0.522 | 0.539 | +3.3 |
| Rainbow trout | 1.796 | 1.914 | +6.5 |

^a RL&L (2001) data collected in zones 3 and 4 during October used for the analysis.

Logarithmic transformation was used to adjust the Peace River catch rate data. As illustrated by the results for mountain whitefish, this created a more symmetrical distribution compared to nontransformed data that was heavily skewed to the left (Figure 3.12). This not only met the assumption for normal distribution ($P=0.003$, One-sample Kolmogorov-Smirnov Test), but it also made the sample variance independent of the mean (Figure 3.13).

Logarithmic transformation also resulted in a large reduction in sample variation. Using Zone 3 data collected in October as an example, the difference in variation exceeded 22% for all the target species (Table 3.14). The best results were recorded for Arctic grayling (46.2%) and mountain whitefish (67.8%). Based on this information, catch rate data should be log-transformed prior to analysis to meet the assumptions for parametric statistical tests and to improve the precision of the estimates.

Table 3.14 Effects of logarithmic transformation on the precision of catch rates^a during Phase I of the Peace River Fish Community Indexing Program, 2001.

| Species | Coefficient of Variation | | Percent Change in Variation |
|--------------------|--------------------------|-----------------|-----------------------------|
| | Raw Data | Log-transformed | |
| Arctic grayling | 0.318 | 0.171 | -46.2 |
| Bull trout | 0.711 | 0.463 | -34.9 |
| Largescale sucker | 1.675 | 1.244 | -25.7 |
| Longnose sucker | 0.603 | 0.362 | -40.0 |
| Mountain whitefish | 0.245 | 0.079 | -67.8 |
| Rainbow trout | 0.805 | 0.624 | -22.5 |

^a Based on data collected in Zone 3 during October in the SFC habitat category; see Table 2.1 for definition.

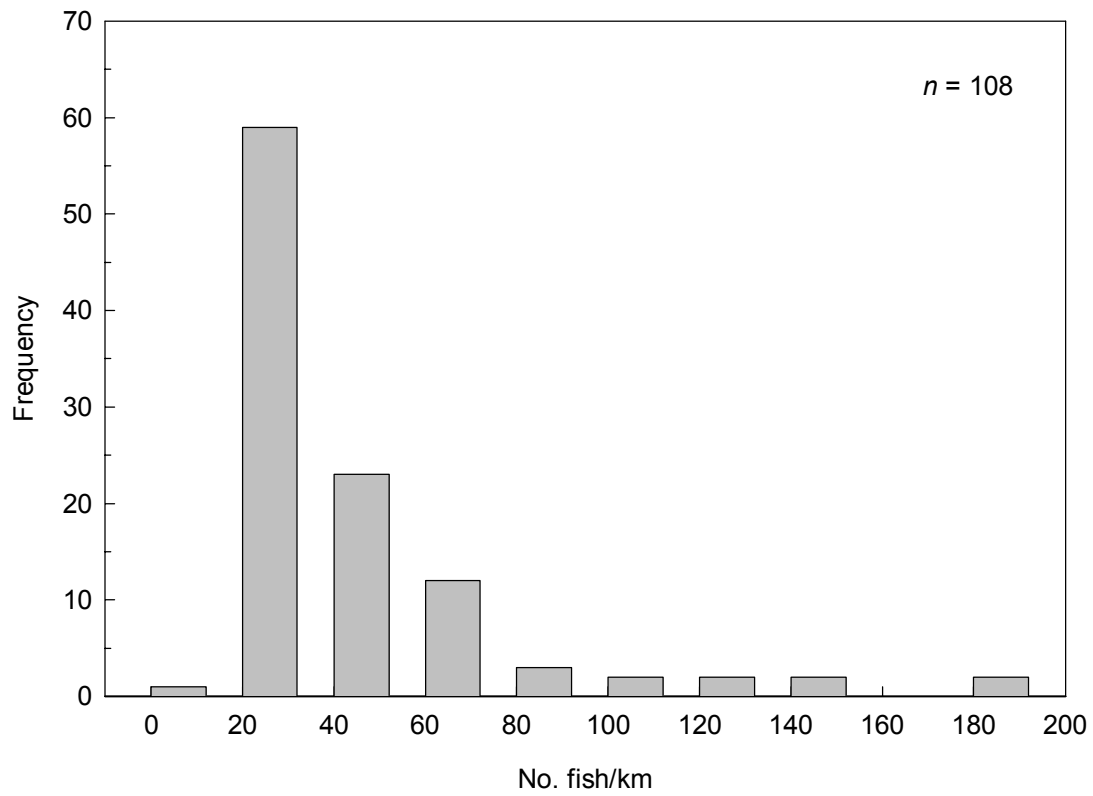
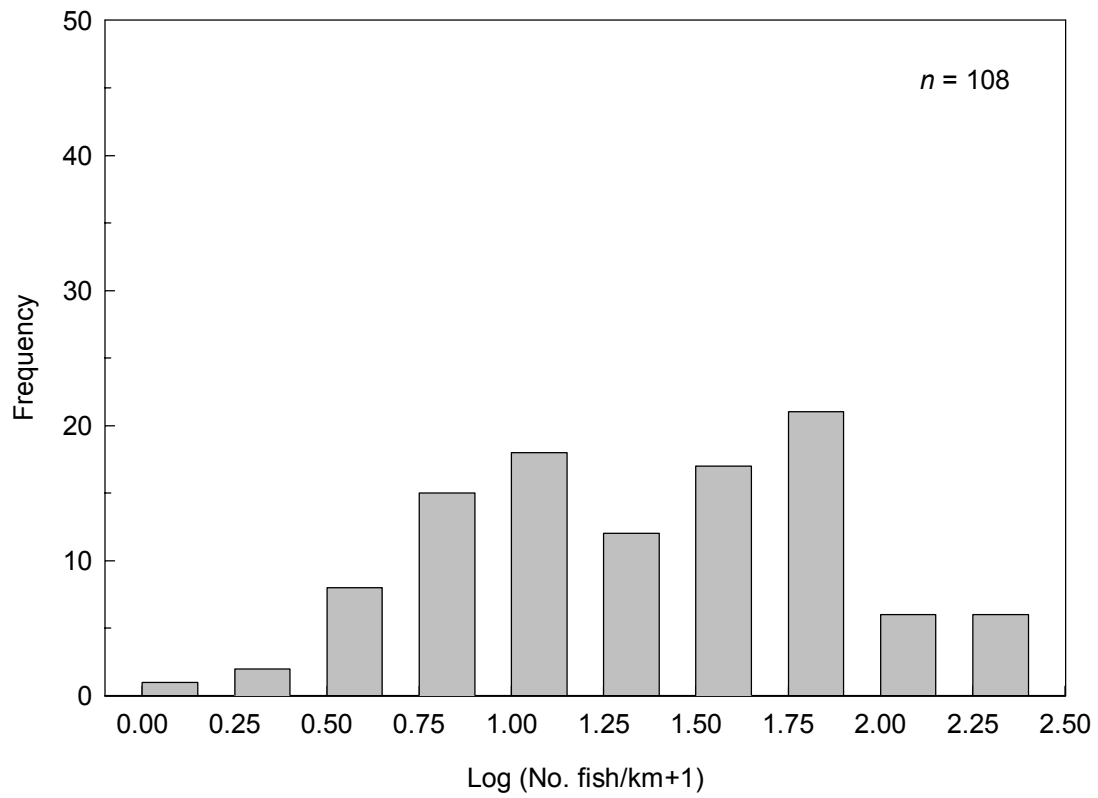


Figure 3.12 Frequency distribution of mountain whitefish catch rates before and after log transformation during Phase I of the Peace River Fish Community Indexing Program, 2001 (Data from tributary confluences and back channels excluded from the analysis).

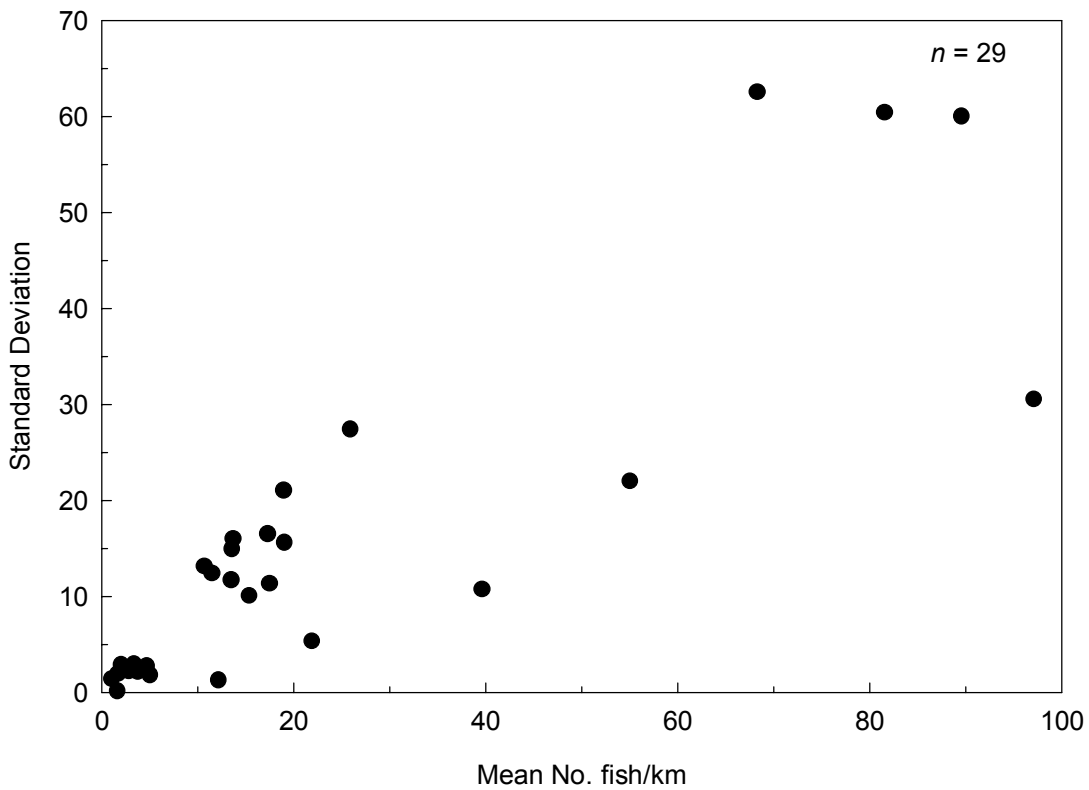
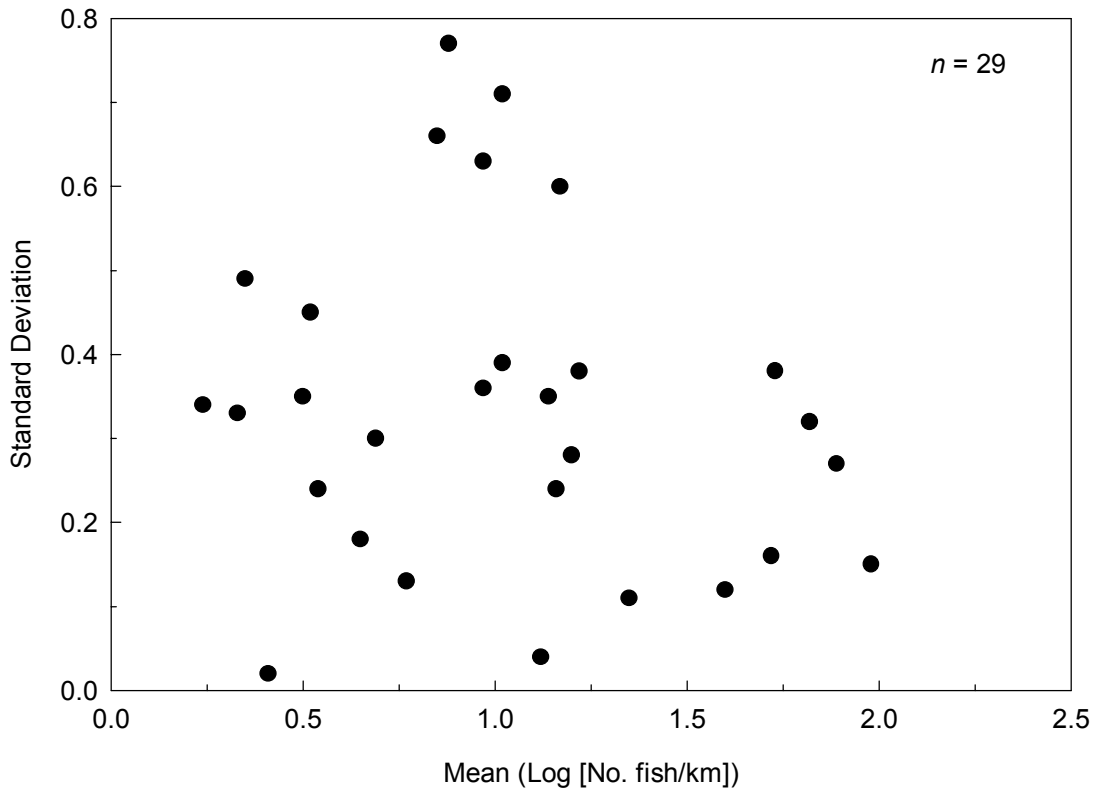


Figure 3.13 Relationship between sample mean and standard deviation for mountain whitefish catch rates during Phase I of the Peace River Fish Community Indexing Program, 2001 (Data point represents mean for each abitat category within each sample zone and season; means with zero standard deviation removed from the analysis).

3.3.2.2 Effort Required to Detect Change

Because a major objective of the Peace River Fish Community Indexing Program is to monitor change in fish abundance, it is important to establish whether the catch rate estimates are sufficiently precise to detect certain magnitude of change for given sampling effort. Based on experience from Phase I studies and other investigations on the Peace River, it is likely that logistical constraints will limit the number of sections to approximately 25 that can be effectively sampled in any one zone. Therefore, it is important to establish whether the precision of the estimates will enable detection of change given this upper limit of sampling effort.

Power analysis results indicated that the catch rates estimates of very few species would be sufficient to detect a 10% change in fish abundance (Table 3.15). The only exception was mountain whitefish, which would require eleven samples. When the difference was increased to 25%, only one other species could be added to the list (Arctic grayling). In this case nine samples would be needed to detect a 25% change in fish abundance. At 50% difference, bull trout (15 samples) longnose sucker (10 samples), and possibly rainbow trout (26 samples) would be suitable candidates for monitoring.

Table 3.15 Sample size required to detect change in catch rates during Phase I of the Peace River Fish Community Indexing Program, 2001.

| Species | Mean \pm SD (Log [No. fish/km + 1]) | Sample Size ^a | | |
|--------------------|--|--------------------------|-------------------|-------------------|
| | | 10% Difference | 25% Difference | 50% Difference |
| Arctic grayling | 1.456 \pm 0.249 | 47 | 9 | 4 |
| Bull trout | 0.888 \pm 0.411 | >100 | 55 | 15 |
| Largescale sucker | 0.838 \pm 1.043 | >100 | >100 | >100 |
| Longnose sucker | 0.861 \pm 0.674 | >100 | 34 | 10 |
| Mountain whitefish | 3.107 \pm 0.247 | 11 | 3 | 2 |
| Rainbow trout | 1.132 \pm 0.707 | >100 | 99 | 26 |

^a Based on power analysis using data collected in Zone 3 during October in the SFC habitat category; $\alpha = 0.05$, Power = 0.80, $n=5$.

These results indicate that catch rate could be used to monitor changes in the abundance of fish. But, for many species the sample size needed to detect a change that is appropriate for monitoring purposes (e.g., 25% difference in adult fish abundance) would be prohibitively high. Of the fish present in the Peace River Study Area, Arctic grayling and mountain whitefish are likely the best species for this purpose.

The results of the power analysis should be viewed as preliminary because assumptions were made regarding the criteria used (i.e., $\alpha = 0.05$ and Power = 0.80). If the monitoring program is willing to accept a lower level of statistical certainty, these criteria can be adjusted (e.g., $\alpha = 0.1$), which will result in less sampling effort being needed to detect a specific amount of change.

3.3.2 Population Estimates

Only mountain whitefish and Arctic grayling had recoveries for the purposes of population estimation. Table 3.16 provides the data used for the population estimates. Figures 3.14 and 3.15 plot the posterior distribution over the range of the prior chosen for mountain whitefish and Arctic grayling, respectively. The span of the posterior distributions precludes quoting sensible point estimates. Figures 3.16 and 3.17 present the minimum population estimates and their associated precision for mountain whitefish (MNWH) and Arctic grayling (ARGR). For example, from the curves we can determine that there is a 0.95 probability that the abundance of mountain whitefish was at least 150,000 and the abundance of Arctic grayling was at least 1000, approximately.

Table 3.16 Data for population estimates for the 2001 study.

| | Mountain Whitefish | Arctic Grayling |
|---------------|-------------------------------|----------------------------|
| Marks Applied | 602 | 42 |
| Fish Examined | 1192 | 71 |
| Recaptures | 3 | 2 |

3.3.3.1 Factors that Affect Population Estimates

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

1. The population is closed, so the population size does not change over the period of the experiment. Because mountain whitefish and Arctic grayling reside in the study area, fish are not expected to immigrate or emigrate to/from the study area. Mortality should not be an issue because marked and unmarked fish should experience the same mortality. However, any estimates only pertain to the first sequence (17 to 28 August). Fish that were <250 mm fork length during the first sequence (thus, not represented by marks) may be larger than 250 mm in the second sequence and counted as fish examined for a mark.

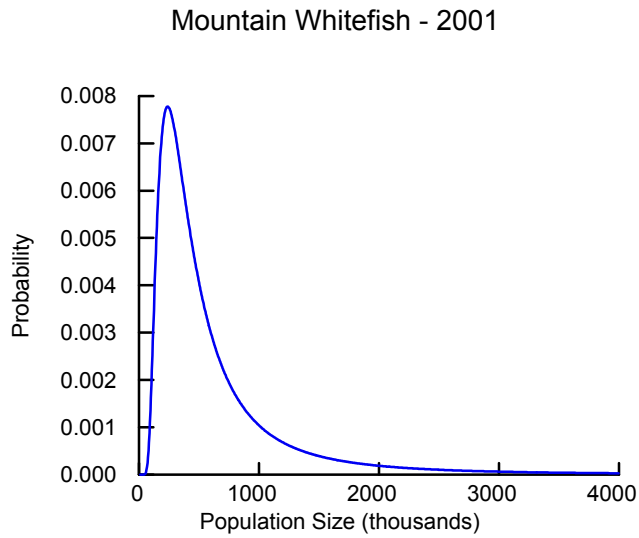


Figure 3.14 Posterior distribution for mountain whitefish.

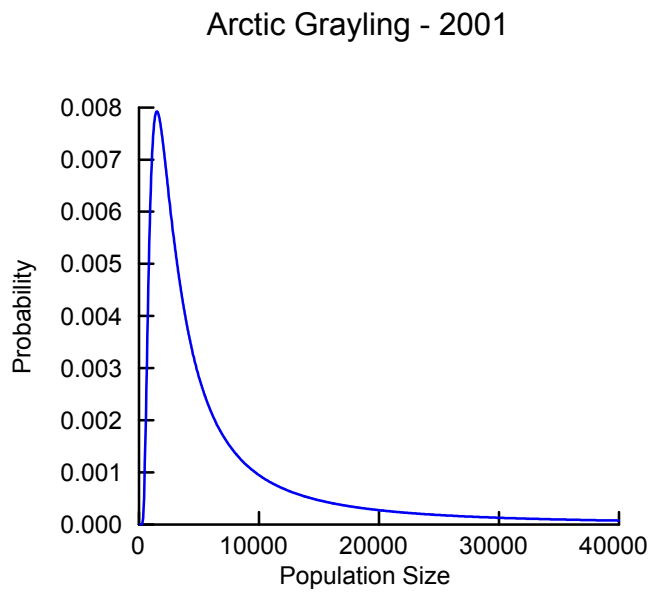


Figure 3.15 Posterior distribution for Arctic grayling.

Because very little information on growth was collected (i.e., few recaptures), the sample size was not corrected for this bias which results in an over estimate of the population size. The minimum population estimates (Figures 3.16 and 3.17) are mainly dependent on the number of marks applied and are insensitive (robust) to the growth-recruitment bias.

2. The probability of capturing a marked fish at any time is equal to the proportion of marked fish in the population at that time. A concern is that marks are applied at different locations with different mark rates because of different capture probabilities (e.g., water clarity) and effort. If the mark application is not random or in proportion to the population available at each location, then subsequent population estimates may be biased. The analytical correction is to stratify the estimation procedure by location; however, very sparse recoveries prevented the application of such a procedure. On the other hand, marked and unmarked fish had approximately two months to mix and return to their normal behavior.
3. Fish do not lose their marks over the period of the study. Each captured fish was examined for the presence of a scar. The incidence of tag loss was assessed to be very small (Pattenden *et al.* 1990).
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 tagged fish would escape detection.

3.3.2.2 Effort Required to Detect Change

Table 3.17 provides the historical estimates of population size by species. The effort column refers to the total number of hours of boat electrofishing expended in the study. As previously noted, precision is defined as half the 95% HPD expressed as a percentage of the Bayesian mean. Note the very large values for the 2001 study implies that any point estimates are highly unreliable. Table 3.18 provides the precision at various effort factors based on the 1989 and 1990 studies for Arctic grayling and mountain whitefish. Figures 3.18 and 3.19 plot the precision as a function of electrofishing effort in hours for Arctic grayling and mountain whitefish, respectively.

Table 3.17 Comparison of historical estimates of population size by species generated in the Peace River Study Area.

| | Effort (hrs) | Arctic Grayling | Mountain Whitefish | Lake Whitefish | Rainbow Trout | Walleye |
|-------------------------|---------------------|----------------------------|-------------------------------|---------------------------|--------------------------|----------------|
| 1989^a | 95.9 | | | | | |
| Recoveries | | 18 | 126 | 3 | 19 | 6 |
| Mean | | 4,359 | 117,593 | 33,814 | 1,418 | 2,591 |
| Precision (%) | | 47.1 | 17.4 | 136.6 | 41.3 | 86.1 |
| 1990^a | 110.9 | | | | | |
| Recoveries | | 37 | | 7 | 19 | 7 |
| Mean | | 4,160 | | 82,012 | 5,995 | 2,881 |
| Precision (%) | | 32.9 | | 65.5 | 39.0 | 64.7 |
| 2001^b | 26.2 | | | | | |
| Recoveries | | 2 | 3 | | | |
| Mean | | 7,700 | 560,000 | | | |
| Precision (%) | | 175.0 | 140.0 | | | |

^a From Pattenden *et al.* 1990, 1991.

^b From present study.

Table 3.18 Precision based on the 1989 and 1990 studies^a.

| Factor | Arctic grayling | | Mountain whitefish |
|---------------|------------------------|-------------|---------------------------|
| | 1989 | 1990 | 1989 |
| 0.50 | 104.3 | 69.1 | 35.5 |
| 0.75 | 64.6 | 44.5 | 23.4 |
| 1.00 | 47.1 | 32.9 | 17.4 |
| 1.25 | 37.0 | 26.2 | 13.9 |
| 1.50 | 30.5 | 21.8 | 11.5 |
| 1.75 | 25.9 | 18.6 | 9.9 |
| 2.00 | 22.5 | 16.3 | 8.7 |
| 2.25 | 19.9 | 14.4 | 7.7 |
| 2.50 | 17.8 | 13.0 | 6.9 |

^a From Pattenden *et al.* 1990, 1991.

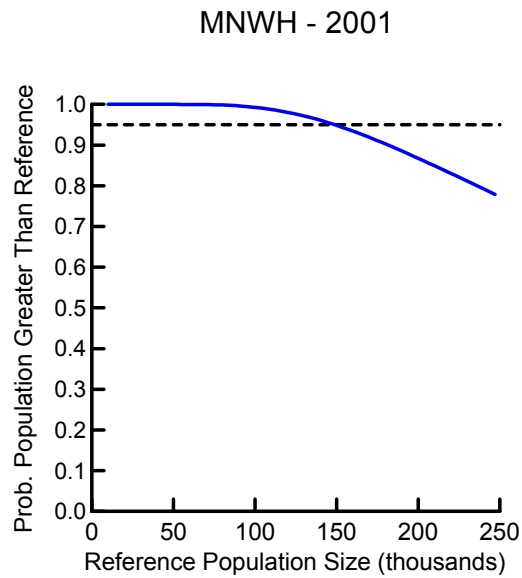


Figure 3.16 Minimum population estimates and the associated precision for mountain whitefish.

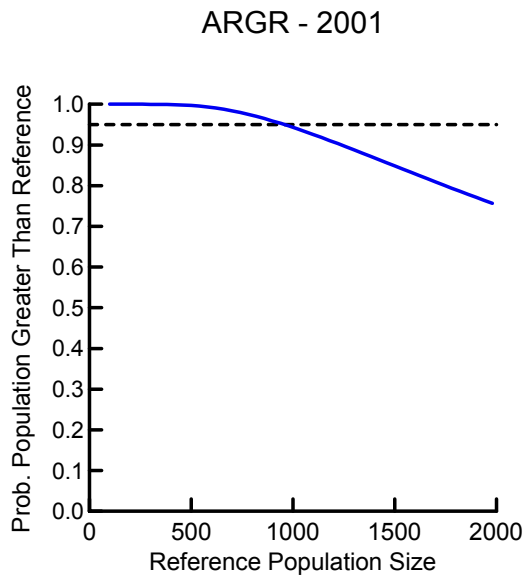


Figure 3.17 Minimum population estimates and the associated precision for Arctic grayling.

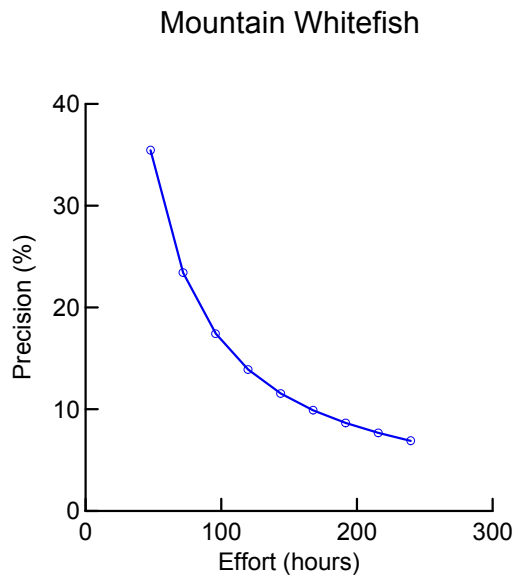


Figure 3.18 Precision of the population estimate at various effort for mountain whitefish.

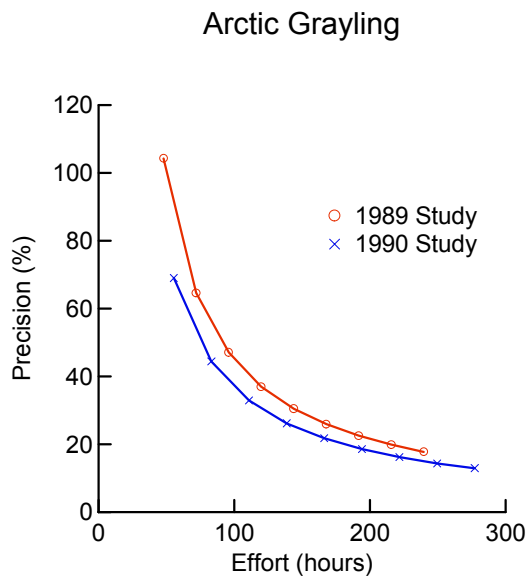


Figure 3.19 Precision of the population estimate at various effort for Arctic grayling.

4.0 SUMMARY

4.1 FISH COMMUNITY CHARACTERISTICS

The Phase I field program completed in August and October documented the general characteristics of the fish community in the mainstem Peace River and the lower sections of its tributaries. The findings of this investigation, which described the biological characteristics, distribution, and abundance of fish populations, were similar to findings by previous investigators (Pattenden *et al.* 1990, 1991; Slaney *et al.* 1991a; RL&L 2001).

The Phase I study also addressed data gaps in the information base. Biological characteristics of selected species were described (bull trout, longnose sucker, and largescale sucker) and the distribution of listed species (bull trout, spottail shiner, and goldeye) was documented. Bull trout and spottail shiner are widely distributed in the study area, while goldeye are restricted to the lowermost reach of the mainstem river. The results of the present study also suggest that there has been an expansion in the historical distribution of spottail shiner. This species was not encountered in the Peace River Study Area during investigations completed in 1989 and 1990, but it is now widespread in the mainstem river and the lower sections of several tributaries.

4.2 EVALUATION OF MONITORING TOOLS

4.2.1 Biological Characteristics

Biological characteristics including age-distribution, body condition, and growth rate can be used as monitoring tools for the Peace River Fish Community Indexing Program. Evaluation of data for one species, mountain whitefish, indicated that for each of these parameters the sample should be stratified to account for spatial and temporal differences in population characteristics.

4.2.2 Abundance Indices

Information collected during the small-fish component of the Phase I study indicated that catch rates generated by beach seining and backpack electrofishing were generally very low and highly variable. The results were consistent with findings made during previous investigations of the small-fish community in the Peace River Study Area. These characteristics preclude use of small-fish catch rates as a viable monitoring tool.

Results of the large-fish sampling component of the Phase I study suggest that catch rates generated by boat electrofishing can be used for monitoring purposes. Evaluation of factors that affect abundance indices showed that zone, season, habitat, water clarity, and discharge could influence catch rate.

Fish population abundance indices varied spatially and temporally. Catch rates tended to be highest in October and species-specific abundance was related to the location of the sample zone. Species such as bull trout, mountain whitefish, and rainbow trout were more numerous in upstream zones, while species such as Arctic grayling and longnose sucker were more abundant farther downstream. Catch rates of most target species also were higher in habitat sections containing physical cover. Mountain whitefish was the only species that was more abundant in habitat sections without physical cover.

During the Phase I field program, water clarity was not an important factor in much of the study area because visibility was generally consistent and high (i.e., >50 cm). However, wide variations in water clarity in Zone 3 during August did affect catch rate. Abundance indices of some species increased with water clarity, while for other species the opposite trend occurred. This suggests that the effect of variable water clarity is not consistent among species.

Variable discharge may also affect catch rate. Preliminary results examining the relationship between water level and catch rate suggest that catch rates are higher during periods with stable water flows (high and low) compared to periods with changing water flows (rising and falling).

The best approach to reduce the effects of these factors is to stratify the sample. This would help ensure a constant catchability within a particular stratum and would improve the precision of the catch rate estimate. Examination of data parameters also suggest that sample variation could be reduced further by not including all observed fish as part of the catch and by adjusting the data using logarithmic transformation.

The precision of the catch rate data does limit its effectiveness as a monitoring tool. Power analysis suggests that catch rate data for Arctic grayling and mountain whitefish would be suitable to detect a change of 25% in the sample population. But, logistical constraints likely would preclude collection of sufficient sample sizes for other species.

4.2.3 Population Estimates

The basic assumptions for the mark-recapture sequential closed population model for mountain whitefish and Arctic grayling can be met. While not incorporated into the estimates for the present study because of sparse recaptures, adjustments to the data to account for the growth related recruitment and stratification of recapture probabilities could be integrated into the estimation procedure. For the Phase I study, point estimates of population size should not be quoted because of poor precision. Only minimum population estimates and their associated precision should be cited. For example, we can determine that there is a 0.95 probability that the abundance of mountain whitefish was at least 150,000 and the abundance of Arctic grayling was at least 1000. Based on work during previous investigations in 1989 and 1990, more than 100 hours of boat electrofishing are needed to stabilize the precision of the population estimates. This would represent a four-fold increase, approximately, in the sampling effort expended during Phase I.

5.0 RECOMMENDATIONS

5.1 APPROACH AND DESIGN

The stated overall objective of the Large River Program is:

“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 monitoring protocol for these large river systems should be based on a systematic assessment of the following factors:

- a. The potential effects of the dam operation regimes on the fish community.
- b. The best indicator species based on life history and catchability.
- c. The specific sampling locations or group of sampling locations.
- d. The optimal sampling times or sequence.

The seasonal, daily and hourly fluctuations in discharge related to the W.A.C Bennett and PCN dams has a number of potential effects on the fish community of the Peace River. Rapid fluctuations in water level can displace or exclude fish from preferred habitats. Changes in water temperature characteristics can cause shifts in fish community assemblages and increased winter flows can alter ice conditions.

It is generally agreed that the impact of these factors will likely be greatest in the shallow water/near-shore habitats. Given these concerns, the best monitoring approach would be to focus sampling efforts on species residing in the mainstem Peace River with the following characteristics:

1. Commonly found in shallow water or near-shore habitats.
2. Mainstem Peace River is the primary environment.
3. Represent an important component of the local fish community.
4. Behavior and abundance facilitates the ability to sample the population.
5. Population is not substantially affected by recruitment from outside sources (e.g., hatchery enhancement activities).

Based on the above criteria, we recommend that mountain whitefish and Arctic grayling would be suitable target species for the monitoring program. Both species are readily captured in near-shore areas using boat electrofishing gear. Previous mark-recapture studies in the Site C Area indicate that size of the adult populations (fish ≥ 250 mm fork length) is very different. In 1989-1990, the Arctic grayling population was estimated to be between 2,500 and 7,100 fish, while the mountain whitefish population was in excess of 90,000 fish. These species tend to be sedentary at certain times of the year making them suitable for mark-recapture studies. Tag recapture data from 1989-1990 suggest that fish do not move more than 10 km from the release site. Sampling locations, times and techniques should be optimized to monitor these species; however, other species also can be enumerated.

Results of the Phase I study suggest that the section of the Peace River between the Pine and Halfway rivers (Reach 2 or Phase I zones 2 and 3) would be the best location to periodically assess the population status of these species. This reach supports substantial populations of both species. Mountain whitefish rely upon this reach for spawning and rearing, while most of the Arctic grayling are juveniles or adults that use the Halfway and Moberly River systems for spawning and early rearing. A concern regarding this choice is that the reach is situated 50 km downstream of the PCN Dam, which may reduce the ability to monitor the effects of dam operation. To address this issue, monitoring can be extended into Reach 3 (upstream of the Halfway River). Or, the section used for monitoring can be situated immediately downstream of the PCN Dam (e.g., adjacent to Hudson Hope). In this case, mountain whitefish would be the only suitable fish species.

Within the monitoring reach, sampling should be distributed between at least 3 sites that would be roughly 10-15 km long and at least 10 km apart. A minimum of 3 sites would be necessary to assess within-year variability between the monitoring sites and help ensure that any changes observed between years are not simply the result of localized changes in the fish population. The 10-15 km within each site should provide an adequate sample of various habitats, while the 10 km separation between the sites should reduce the potential of fish moving between the survey sites.

The timing and frequency of sampling efforts in a particular year are also important components of the monitoring program. The optimal sampling period depends on the river flow, water temperature, water clarity, and fish life history characteristics. Based on the Phase I study results, the best sampling conditions would occur when flows are high and stable, which may concentrate fish in near-shore habitats where they can be more efficiently sampled by boat electrofishing. It is difficult to predict when these conditions occur in the Peace River, but late summer to fall will likely provide an appropriate window. High water clarity also improves sampling effectiveness and these conditions are also most likely to occur in late summer and fall when tributary inputs are low.

The life history characteristics of mountain whitefish and Arctic grayling will also increase their vulnerability to capture in late summer or fall. Mountain whitefish populations are accessible during fall sampling because they aggregate in near-shore areas prior to spawning. Mature Arctic grayling migrate into tributaries to spawn in spring, but most of the adult population would have returned to the Peace River by late-summer. If juvenile Arctic grayling are to be included in the monitoring program, sampling would need to be deferred until mid to late fall after juvenile fish have dispersed from rearing tributaries to overwinter in the mainstem Peace River.

The timing of the surveys should be determined by water temperature and flow conditions rather than calendar dates. The program would be initiated after the target water temperature and flow conditions had been achieved. The minimum sampling effort would include three complete surveys through each of the three sampling sites. Each site should be surveyed sequentially to provide a period between samples for fish to return to their normal behavior and to provide any marked fish with an opportunity to mix with the unmarked population.

If fish population estimates are chosen as the primary monitoring tool, activities undertaken during each survey would vary over the sampling interval. During the first two surveys, all mountain whitefish and Arctic grayling ≥ 250 mm fork length would be tagged with Floy anchor tags. During the last survey at each site, no additional marks would be applied and surveys techniques would be adjusted to maximize the number of fish examined for marks.

If the primary monitoring strategy involves collection of biological data and indexing fish abundance using catch rate, then a slightly different sampling protocol would be employed. Attempts would be made to collect scale samples and body measurements (length and weight) from a random sample of the catch of each target species and sampling effort would be standardized across all surveys.

Prior to initiating the program, specific sampling and enumeration objectives should be clearly defined for target and non-target species. This approach will ensure that project managers can make an accurate estimate of the amount of sampling effort required to achieve the goals of the program.

The above sampling design will provide a balanced and robust approach for monitoring the fish community in the Peace River. Information will be collected from all species encountered while sampling efforts will focus on the target species. The surveys will be distributed over a significant portion of the river, but will focus on times and areas where the sampling methods are most effective at capturing the

target species. The initiation of the surveys will be responsive to annual variation in water temperature and flow, but the survey interval will be sufficiently long to ensure that the results are not compromised for short-term anomalies. The combination of the systematic application of electrofishing effort with mark-recapture will provide meaningful catch rate data for all species and a means of assessing the within and between year variability in the efficiency of the survey methods.

The overall goal for the next two years should be to implement and test the above sampling design. If successful, the above approach could be repeated at 3-5 year intervals to monitor long-term changes in the fish community or more frequently to assess specific changes resulting from alternative operating regimes.

5.2 MONITORING TOOLS AND EFFORT

5.2.1 Biological Characteristics

Age-cohort analysis, body condition, and growth rate are all suitable parameters to monitor target fish populations. It is recommended that a representative sample of at least 300 fish be analyzed, which can be obtained by measuring and collecting ageing structures from all captured fish and then generating a random sample from this collection. Results from Phase I indicate that a sufficient sample can be obtained from mountain whitefish, but low numbers of Arctic grayling may be a problem.

5.2.3 Abundance Indices

It is recommended that index sampling within the monitoring sites be stratified by habitat to account for differences in catchability and sampling should focus on the SFC category (habitat with physical cover). This category is widely distributed in the reach that has been proposed for monitoring purposes (Reach 2 or Phase I zones 2 and 3). From 15 to 20 samples should be collected at each site to ensure that the power of the monitoring program is sufficient to detect change. Assuming that at least five sections can be sampled each day, each site would require from 3 to 4 days to survey. It is recommended that a site inspection be completed before initiation of the monitoring program to establish fixed sampling sections in the appropriate habitat.

5.2.4 Population Estimates

Population estimates will be computed following Gazey and Staley (1986) as presented in this report. A stratified design will be applied if marks move between sites. This can be accomplished by extending the Bayesian mark-recapture model for spatial stratification by assuming that all marked fish released in the same time period and site have the same recapture probability within a site and is proportional to the sampling intensity within that site.

Based on the precision analysis using the 1989 and 1990 data, a conservative estimate of approximately 100 hours of boat electrofishing effort will be required to stabilize the precision. The sampling should be equally disbursed over the sites with the last sampling sequence receiving more effort. The suggested distribution of effort is presented in Table 5.1

Table 5.1 Proposed distribution of effort (hours of boat electrofishing).

| Site | Sequence | | | Total |
|--------------|-----------|-----------|-----------|-----------|
| | 1 | 2 | 3 | |
| 1 | 10 | 10 | 13 | 33 |
| 2 | 10 | 10 | 13 | 33 |
| 3 | 10 | 10 | 13 | 33 |
| Total | 30 | 30 | 39 | 99 |

The sampling plan in Table 5.1 should result in approximately a 95% precision of $\pm 50\%$ for Arctic grayling and $\pm 25\%$ for mountain whitefish in each of the sites.

This estimate of sampling effort should be viewed as preliminary due to differences in sampling protocols used during the 1989-1990 studies and the proposed monitoring program. The previous investigation encompassed 151 km of river and a portion of the sampled area contained relatively low numbers of the target species (i.e., Reach 1 and 4). The proposed monitoring program will focus its effort within a shorter section of river (approximately 50 km) where the target species will be encountered more frequently. As such, tagging and recapture rates should be higher per unit effort of sampling, thereby reducing the amount of effort needed to detect change.

Assuming that 100 h of effort will be required to obtain the required precision, 45 field days of sampling will be needed to complete the program. This assumes that approximately 2.2 h of boat electrofishing effort is expended per day. A preliminary estimate to complete 45 field days of sampling is \$75,000. This value does not include office related expenditures.

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APPENDIX A
SAMPLE SITES

Appendix A Table A1. Sampling sites and UTM locations (NAD 27; Zone 10V) in the study area during Phase I of the Peace River Fish Community Indexing Program, 2001.

| Area | Waterbody | Method | Site Label | Site Kilometre | Site Position | Easting | Northing |
|--------|------------------|----------------------|------------|----------------|-----------------------|---------|----------|
| Zone 1 | | | | | | | |
| | Beaton River | Beach Seine | BS0102 | 26.4 | Right Downstream Bank | 663065 | 6220421 |
| | Kiskatinaw River | Beach Seine | BS0103 | 12.3 | Right Downstream Bank | 676319 | 6219756 |
| | Peace River | Beach Seine | BS0110 | 30.6 | Right Downstream Bank | 659153 | 6220306 |
| | Peace River | Beach Seine | BS0105 | 16.4 | Right Downstream Bank | 672506 | 6220013 |
| | Peace River | Beach Seine | BS0106 | 18.3 | Left Downstream Bank | 671008 | 6221201 |
| | Peace River | Beach Seine | BS0107 | 22.9 | Right Downstream Bank | 666647 | 6219700 |
| | Peace River | Beach Seine | BS0109 | 23.7 | Right Downstream Bank | 666155 | 6220227 |
| | Peace River | Beach Seine | BS0104 | 12.4 | Right Downstream Bank | 676552 | 6219672 |
| | Peace River | Beach Seine | BS0101 | 26.4 | Left Downstream Bank | 663558 | 6219844 |
| | Peace River | Beach Seine | BS0108 | 23.7 | Right Downstream Bank | 665956 | 6220183 |
| | Peace River | Boat Electrofish | ES0108 | 22.0 to 20.0 | Right Downstream Bank | 667341 | 6220223 |
| | Peace River | Boat Electrofish | ES0113 | 11.0 to 9.0 | Left Downstream Bank | 677117 | 6220855 |
| | Peace River | Boat Electrofish | ES0111 | 15.1 to 13.0 | Right Downstream Bank | 673514 | 6219886 |
| | Peace River | Boat Electrofish | ES0114 | 8.0 to 6.0 | Right Downstream Bank | 680147 | 6221093 |
| | Peace River | Boat Electrofish | ES0101 | 31.2 to 29.7 | Left Downstream Bank | 658851 | 6221003 |
| | Peace River | Boat Electrofish | ES0112 | 12.5 to 12.0 | Right Downstream Bank | 676379 | 6219802 |
| | Peace River | Boat Electrofish | ES0102 | 29.2 to 27.3 | Right Downstream Bank | 660368 | 6220034 |
| | Peace River | Boat Electrofish | ES0103 | 28.4 to 26.5 | Left Downstream Bank | 661147 | 6220434 |
| | Peace River | Boat Electrofish | ES0107 | 25.0 to 23.0 | Right Downstream Bank | 664497 | 6219865 |
| | Peace River | Boat Electrofish | ES0106 | 25.0 to 23.0 | Left Downstream Bank | 664476 | 6220392 |
| | Peace River | Boat Electrofish | ES0105 | 26.4 to 25.8 | Left Downstream Bank | 663086 | 6220160 |
| | Peace River | Boat Electrofish | ES0104 | 26.4 to 26.4 | Both Banks | 663065 | 6220287 |
| | Peace River | Boat Electrofish | ES0109 | 19.8 to 17.5 | Right Downstream Bank | 669764 | 6220729 |
| | Peace River | Boat Electrofish | ES0110 | 17.0 to 14.5 | Left Downstream Bank | 672313 | 6221045 |
| | Peace River | Water Level Recorder | WL0101 | 24.4 | Left Downstream Bank | 665189 | 6220273 |
| Zone 2 | | | | | | | |
| | Moberly River | Backpack Electrofish | EF0203 | 64.5 | Right Downstream Bank | 628955 | 6229995 |
| | Moberly River | Beach Seine | BS0210 | 64.5 | Left Downstream Bank | 629258 | 6230389 |
| | Peace River | Backpack Electrofish | EF0204 | 57.2 | Right Downstream Bank | 635912 | 6230146 |
| | Peace River | Backpack Electrofish | EF0202 | 65.6 | Left Downstream Bank | 628625 | 6230934 |
| | Peace River | Backpack Electrofish | EF0201 | 70.0 | Right Downstream Bank | 624823 | 6233276 |
| | Peace River | Beach Seine | BS0201 | 50.4 | Right Downstream Bank | 639436 | 6226227 |
| | Peace River | Beach Seine | BS0209 | 53.6 | Right Downstream Bank | 637903 | 6227181 |

Appendix A Table A1. Sampling sites and UTM locations (NAD 27; Zone 10V) in the study area during Phase I of the Peace River Fish Community Indexing Program, 2001.

| Area | Waterbody | Method | Site Label | Site Kilometre | Site Position | Easting | Northing |
|--------|---------------|----------------------|------------|----------------|-----------------------|---------|----------|
| Zone 2 | | | | | | | |
| | Peace River | Beach Seine | BS0203 | 70.0 | Right Downstream Bank | 625106 | 6233193 |
| | Peace River | Beach Seine | BS0204 | 69.3 | Right Downstream Bank | 625676 | 6233043 |
| | Peace River | Beach Seine | BS0208 | 57.2 | Right Downstream Bank | 636341 | 6229953 |
| | Peace River | Beach Seine | BS0207 | 61.2 | Right Downstream Bank | 632654 | 6228350 |
| | Peace River | Beach Seine | BS0202 | 47.7 | Right Downstream Bank | 642839 | 6224070 |
| | Peace River | Beach Seine | BS0205 | 64.7 | Right Downstream Bank | 628680 | 6230236 |
| | Peace River | Beach Seine | BS0206 | 64.6 | Right Downstream Bank | 628940 | 6230018 |
| | Peace River | Boat Electrofish | ES0205 | 62.0 to 60.5 | Left Downstream Bank | 631567 | 6229569 |
| | Peace River | Boat Electrofish | ES0210 | 55.6 to 53.4 | Right Downstream Bank | 637066 | 6229174 |
| | Peace River | Boat Electrofish | ES0209 | 57.0 to 55.6 | Left Downstream Bank | 636246 | 6230420 |
| | Peace River | Boat Electrofish | ES0217 | 58.0 to 57.0 | Right Downstream Bank | 635274 | 6229964 |
| | Peace River | Boat Electrofish | ES0208 | 59.0 to 58.2 | Right Downstream Bank | 634454 | 6229630 |
| | Peace River | Boat Electrofish | ES0213 | 51.0 to 50.0 | Left Downstream Bank | 640013 | 6226318 |
| | Peace River | Boat Electrofish | ES0206 | 60.5 to 59.6 | Right Downstream Bank | 633512 | 6229600 |
| | Peace River | Boat Electrofish | ES0204 | 64.0 to 62.0 | Right Downstream Bank | 629350 | 6229630 |
| | Peace River | Boat Electrofish | ES0203 | 64.8 to 64.3 | Right Downstream Bank | 628772 | 6230238 |
| | Peace River | Boat Electrofish | ES0202 | 68.0 to 66.0 | Left Downstream Bank | 626980 | 6233033 |
| | Peace River | Boat Electrofish | ES0212 | 53.0 to 51.4 | Right Downstream Bank | 638191 | 6226896 |
| | Peace River | Boat Electrofish | ES0216 | 69.2 to 68.0 | Right Downstream Bank | 625643 | 6233245 |
| | Peace River | Boat Electrofish | ES0201 | 70.0 to 69.2 | Right Downstream Bank | 624884 | 6233428 |
| | Peace River | Boat Electrofish | ES0207 | 61.0 to 59.6 | Both Banks | 632843 | 6228658 |
| | Peace River | Boat Electrofish | ES0211 | 54.0 to 53.3 | Both Banks | 637279 | 6227686 |
| | Peace River | Boat Electrofish | ES0215 | 48.0 to 47.0 | Right Downstream Bank | 642505 | 6224222 |
| | Peace River | Boat Electrofish | ES0214 | 50.0 to 48.0 | Right Downstream Bank | 640651 | 6225650 |
| | Peace River | Gill Net | GN0201 | 53.2 | Back Channel | 637370 | 6228111 |
| | Peace River | Water Level Recorder | WL0201 | 53.2 | Right Downstream Bank | 638163 | 6226799 |
| Zone 3 | | | | | | | |
| | Cache Creek | Stream Survey | EF0302 | 87.2 | Both Banks | 609724 | 6236675 |
| | Halfway River | Beach Seine | BS0301 | 104.0 | Left Downstream Bank | 596446 | 6230967 |
| | Peace River | Backpack Electrofish | EF0301 | 107.1 | Right Downstream Bank | 593803 | 6229205 |
| | Peace River | Beach Seine | BS0309 | 100.8 | Right Downstream Bank | 599308 | 6232867 |
| | Peace River | Beach Seine | BS0302 | 106.9 | Left Downstream Bank | 592648 | 6227687 |
| | Peace River | Beach Seine | BS0304 | 99.0 | Right Downstream Bank | 600368 | 6232640 |

Appendix A Table A1. Sampling sites and UTM locations (NAD 27; Zone 10V) in the study area during Phase I of the Peace River Fish Community Indexing Program, 2001.

| Area | Waterbody | Method | Site Label | Site Kilometre | Site Position | Easting | Northing |
|--------|---------------|----------------------|------------|----------------|-----------------------|---------|----------|
| Zone 3 | | | | | | | |
| | Peace River | Beach Seine | BS0308 | 94.7 | Right Downstream Bank | 603525 | 6233063 |
| | Peace River | Beach Seine | BS0310 | 103.4 | Left Downstream Bank | 597335 | 6230561 |
| | Peace River | Beach Seine | BS0311 | 87.2 | Left Downstream Bank | 609845 | 6237165 |
| | Peace River | Beach Seine | BS0307 | 94.7 | Right Downstream Bank | 603814 | 6232896 |
| | Peace River | Boat Electrofish | ES0308 | 106.0 to 106.0 | Both Banks | 594806 | 6229387 |
| | Peace River | Boat Electrofish | ES0309 | 102.0 to 101.0 | Left Downstream Bank | 598573 | 6232698 |
| | Peace River | Boat Electrofish | ES0310 | 99.0 to 97.0 | Left Downstream Bank | 600396 | 6233154 |
| | Peace River | Boat Electrofish | ES0301 | 98.0 to 96.0 | Right Downstream Bank | 600973 | 6232881 |
| | Peace River | Boat Electrofish | ES0302 | 95.0 to 93.0 | Left Downstream Bank | 604224 | 6233458 |
| | Peace River | Boat Electrofish | ES0303 | 93.0 to 91.0 | Right Downstream Bank | 605379 | 6233306 |
| | Peace River | Boat Electrofish | ES0304 | 91.4 to 90.0 | Right Downstream Bank | 607019 | 6234035 |
| | Peace River | Boat Electrofish | ES0305 | 90.0 to 88.0 | Right Downstream Bank | 607931 | 6234856 |
| | Peace River | Boat Electrofish | ES0313 | 87.3 to 87.0 | Left Downstream Bank | 609754 | 6237104 |
| | Peace River | Boat Electrofish | ES0311 | 87.0 to 85.5 | Left Downstream Bank | 610179 | 6237316 |
| | Peace River | Boat Electrofish | ES0312 | 84.0 to 82.0 | Right Downstream Bank | 612701 | 6236192 |
| | Peace River | Boat Electrofish | ES0306 | 108.0 to 106.0 | Right Downstream Bank | 593682 | 6228263 |
| | Peace River | Boat Electrofish | ES0307 | 108.0 to 107.0 | Left Downstream Bank | 593621 | 6228688 |
| | Peace River | Gill Net | GN0301 | 107 | Back Channel | 594168 | 6229205 |
| | Peace River | Gill Net | GN0302 | 99.0 | Back Channel | 599910 | 6233671 |
| | Peace River | Water Level Recorder | WL0301 | 98.5 | Right Downstream Bank | 600737 | 6232625 |
| Zone 4 | | | | | | | |
| | Farrell Creek | Stream Survey | EF0403 | 128.9 | Both Banks | 576364 | 6219209 |
| | Lynx Creek | Stream Survey | EF0402 | 136.6 | Both Banks | 572476 | 6213983 |
| | Maurice Creek | Stream Survey | EF0401 | 143.1 | Both Banks | 567949 | 6209244 |
| | Peace River | Beach Seine | BS0407 | 131.2 | Left Downstream Bank | 574224 | 6218366 |
| | Peace River | Beach Seine | BS0401 | 143.1 | Right Downstream Bank | 568131 | 6209305 |
| | Peace River | Beach Seine | BS0402 | 136.5 | Left Downstream Bank | 572384 | 6214166 |
| | Peace River | Beach Seine | BS0404 | 128.7 | Left Downstream Bank | 576547 | 6219300 |
| | Peace River | Beach Seine | BS0405 | 126.1 | Right Downstream Bank | 579861 | 6219259 |
| | Peace River | Beach Seine | BS0406 | 128.7 | Left Downstream Bank | 576683 | 6219078 |
| | Peace River | Beach Seine | BS0410 | 135.2 | Right Downstream Bank | 573567 | 6215089 |
| | Peace River | Beach Seine | BS0409 | 132.6 | Right Downstream Bank | 574107 | 6217191 |
| | Peace River | Boat Electrofish | ES0402 | 143.1 to 142.9 | Right Downstream Bank | 568070 | 6209214 |

Appendix A Table A1. Sampling sites and UTM locations (NAD 27; Zone 10V) in the study area during Phase I of the Peace River Fish Community Indexing Program, 2001.

| Area | Waterbody | Method | Site Label | Site Kilometre | Site Position | Easting | Northing |
|--------|-------------|----------------------|------------|----------------|-----------------------|---------|----------|
| Zone 4 | | | | | | | |
| | Peace River | Boat Electrofish | ES0403 | 142.0 to 141.0 | Left Downstream Bank | 568739 | 6210338 |
| | Peace River | Boat Electrofish | ES0404 | 140 to 139.0 | Right Downstream Bank | 570136 | 6211735 |
| | Peace River | Boat Electrofish | ES0405 | 139.0 to 137.0 | Left Downstream Bank | 570531 | 6212312 |
| | Peace River | Boat Electrofish | ES0406 | 136.5 to 136.3 | Left Downstream Bank | 572506 | 6214196 |
| | Peace River | Boat Electrofish | ES0407 | 135.0 to 134.0 | Right Downstream Bank | 573600 | 6215259 |
| | Peace River | Boat Electrofish | ES0408 | 133.0 to 132.0 | Right Downstream Bank | 573873 | 6217204 |
| | Peace River | Boat Electrofish | ES0410 | 128.0 to 127.0 | Right Downstream Bank | 577246 | 6218905 |
| | Peace River | Boat Electrofish | ES0411 | 126.7 to 126.4 | Left Downstream Bank | 578461 | 6220121 |
| | Peace River | Boat Electrofish | ES0412 | 125.0 to 124.0 | Right Downstream Bank | 579646 | 6219452 |
| | Peace River | Boat Electrofish | ES0413 | 123.0 to 122.0 | Right Downstream Bank | 581529 | 6219665 |
| | Peace River | Boat Electrofish | ES0414 | 121.0 to 120.3 | Right Downstream Bank | 583474 | 6220607 |
| | Peace River | Boat Electrofish | ES0409 | 128.7 to 128.0 | Right Downstream Bank | 577246 | 6219148 |
| | Peace River | Boat Electrofish | ES0401 | 145.2 to 144.3 | Right Downstream Bank | 566855 | 6207725 |
| | Peace River | Water Level Recorder | WL0401 | 137.6 | Left Downstream Bank | 571543 | 6213505 |

APPENDIX B
SAMPLING CONDITIONS

Appendix B Table B1. Boat electrofisher sampling conditions during Phase I of the Peace River Fish Community Indexing Program, 2001.

| Area | Site Label | Date and Time | Effort (m) (s) | Habitat Type | Bank Habitat | Instream Habitat | Dominant Substrate | Dominant Cover | Bank Slope (1-4) | Temp. (C) | Water | | | Cond. (us/cm) | Light (1-4) | Electrofisher | | | Skill | |
|--------|------------|---------------|-------------------|-----------------|-----------------|---------------------|-----------------------|-------------------|------------------------|--------------|-----------------|---------------|---------------|------------------|----------------|---------------|----|-----|--------------|---------------|
| | | | | | | | | | | | Clarity (cm) | Level (mm) | Vel. (1-4) | | | A | Hz | V | Net (1-4) | Boat (1-4) |
| Zone 1 | | | | | | | | | | | | | | | | | | | | |
| ES0101 | | | | | | | | | | | | | | | | | | | | |
| | 26/08/2001 | 10:15:00 AM | 1300 627 | SFC | E2 | Run | Sand | LOD | 3 | 11.5 | 55 | 2562 | 2 | 170 | 3 | 3 | 60 | 354 | 1 | 1 |
| | 21/10/2001 | 11:30:00 AM | 1500 526 | SFC | E2 | Run | Sand | LOD | 3 | 6.0 | 42 | 3190 | 2 | 200 | 3 | 4 | 60 | 354 | 1 | 1 |
| ES0102 | | | | | | | | | | | | | | | | | | | | |
| | 26/08/2001 | 11:00:00 AM | 2100 1602 | SLC | A2 | Run | Cobble | Bank | 3 | 11.5 | 55 | 2565 | 2 | 170 | 2 | 3 | 60 | 354 | 1 | 1 |
| | 21/10/2001 | 12:00:00 PM | 1800 959 | SLC | A2 | Run | Cobble | Bank | 3 | 6.0 | 42 | 3208 | 2 | 200 | 3 | 4 | 60 | 354 | 1 | 1 |
| ES0103 | | | | | | | | | | | | | | | | | | | | |
| | 26/08/2001 | 11:45:00 AM | 1900 921 | SLN | A3 | Flat | Cobble | None | 1 | 11.5 | 55 | 2569 | 4 | 170 | 2 | 3 | 60 | 354 | 1 | 1 |
| | 21/10/2001 | 12:30:00 PM | 1500 855 | SLN | A3 | Flat | Cobble | None | 1 | 6.0 | 42 | 3215 | 4 | 200 | 2 | 4 | 60 | 354 | 1 | 1 |
| ES0104 | | | | | | | | | | | | | | | | | | | | |
| | 26/08/2001 | 12:30:00 PM | 400 880 | SLN | A3 | Flat | Cobble | None | 1 | 17.0 | 10 | 2567 | 4 | 200 | 1 | 3 | 60 | 354 | 1 | 1 |
| | 21/10/2001 | 1:00:00 PM | 400 1080 | SLN | A3 | Flat | Cobble | None | 1 | 2.0 | 45 | 3222 | 4 | 390 | 2 | 4 | 60 | 354 | 1 | 1 |
| ES0105 | | | | | | | | | | | | | | | | | | | | |
| | 26/08/2001 | 1:30:00 PM | 700 471 | CON | TCD3 | Confluence | Sand | None | 4 | 12.5 | 10 | 2558 | 3 | 200 | 1 | 3 | 60 | 354 | 1 | 1 |
| | 21/10/2001 | 2:30:00 PM | 700 726 | CON | TCD3 | Confluence | Sand | None | 4 | 3.0 | 45 | 3235 | 3 | 39 | 2 | 4 | 60 | 354 | 1 | 1 |
| ES0106 | | | | | | | | | | | | | | | | | | | | |
| | 26/08/2001 | 2:30:00 PM | 200 1182 | SFC | A2 | Run | Cobble | Rock; Bank | 2 | 15.0 | 10 | 2540 | 3 | 200 | 2 | 3 | 60 | 354 | 1 | 1 |
| | 21/10/2001 | 3:00:00 PM | 1300 585 | SFC | A2 | Run | Cobble | Rock; Bank | 2 | 6.0 | 45 | 3235 | 2 | 190 | 2 | 4 | 60 | 354 | 1 | 1 |

Appendix B Table B1. Boat electrofisher sampling conditions during Phase I of the Peace River Fish Community Indexing Program, 2001.

| Area | Site Label | Date and Time | Effort (m) (s) | Habitat Type | Bank Habitat | Instream Habitat | Dominant Substrate | Dominant Cover | Bank Slope (1-4) | Water | | | Cond. (us/cm) | Light (1-4) | Electrofisher | | | Skill | |
|------------|-------------|---------------|-------------------|-----------------|-----------------|---------------------|-----------------------|-------------------|------------------------|--------------|-----------------|---------------|------------------|----------------|---------------|----|-----|-------|--------------|
| | | | | | | | | | | Temp. (C) | Clarity (cm) | Level (mm) | | | Vel. (1-4) | A | Hz | V | Net (1-4) |
| Zone 1 | | | | | | | | | | | | | | | | | | | |
| ES0107 | | | | | | | | | | | | | | | | | | | |
| 26/08/2001 | 3:30:00 PM | 2000 1403 | SFN | A3 | Run | Cobble | None | 1 | 13.0 | 80 | 2519 | 3 | 180 | 2 | 3 | 60 | 354 | 1 | 1 |
| 21/10/2001 | 3:30:00 PM | 600 303 | SFN | A3 | Run | Cobble | None | 1 | 6.0 | 45 | 3231 | 2 | 190 | 2 | 4 | 60 | 354 | 1 | 1 |
| ES0108 | | | | | | | | | | | | | | | | | | | |
| 26/08/2001 | 4:15:00 PM | 200 1122 | SLC | A1 | Run | Boulder | Rock | 3 | 13.0 | 80 | 2491 | 3 | 180 | 2 | 3 | 60 | 354 | 1 | 1 |
| 21/10/2001 | 4:15:00 PM | 2000 1267 | SLC | A1 | Run | Boulder | Rock | 3 | 6.0 | 45 | 3225 | 3 | 190 | 2 | 4 | 60 | 354 | 1 | 1 |
| ES0109 | | | | | | | | | | | | | | | | | | | |
| 26/08/2001 | 5:00:00 PM | 2200 1398 | SFN | A3 | Run | Cobble | Rock | 1 | 13.0 | 80 | 2465 | 3 | 180 | 1 | 3 | 60 | 354 | 1 | 1 |
| 22/10/2001 | 11:30:00 AM | 1200 1600 | SFN | A3 | Run | Cobble | Rock | 1 | 6.0 | 85 | 3184 | 3 | 190 | 3 | 3.5 | 60 | 354 | 1 | 1 |
| ES0110 | | | | | | | | | | | | | | | | | | | |
| 26/08/2001 | 5:45:00 PM | 2500 1159 | SFN | A3 | Run | Cobble | None | 2 | 13.5 | 20 | 2429 | 3 | 180 | 1 | 3 | 60 | 354 | 1 | 1 |
| 22/10/2001 | 12:00:00 PM | 2000 723 | SFN | A3 | Run | Cobble | None | 2 | 6.0 | 85 | 3185 | 3 | 190 | 3 | 3.5 | 60 | 354 | 1 | 1 |
| ES0111 | | | | | | | | | | | | | | | | | | | |
| 27/08/2001 | 10:30:00 AM | 2000 1291 | SFC | A2 | Run | Cobble | Bank | 3 | 12.5 | 55 | 2221 | 3 | 210 | 3 | 3 | 60 | 354 | 1 | 1 |
| 22/10/2001 | 1:30:00 PM | 1400 1001 | SFC | A2 | Run | Cobble | Bank | 3 | 6.0 | 85 | 3176 | 3 | 190 | 3 | 3.5 | 60 | 354 | 1 | 1 |
| ES0112 | | | | | | | | | | | | | | | | | | | |
| 27/08/2001 | 11:15:00 AM | 500 350 | CON | TCD3 | Confluence | Sand | None | 4 | 16.0 | 10 | 2259 | 4 | 450 | 2 | 3 | 60 | 354 | 1 | 1 |
| 22/10/2001 | 2:00:00 PM | 500 461 | CON | TCD3 | Confluence | Sand | None | 4 | 5.0 | 85 | 3171 | 3 | 230 | 3 | 3.5 | 60 | 354 | 1 | 1 |

Appendix B Table B1. Boat electrofisher sampling conditions during Phase I of the Peace River Fish Community Indexing Program, 2001.

| Area | Site Label Date and Time | Effort (m) (s) | Habitat Type | Bank Habitat | Instream Habitat | Dominant Substrate | Dominant Cover | Bank Slope (1-4) | Temp. (C) | Water | | | Cond. (us/cm) | Light (1-4) | Electrofisher | | | Skill | |
|--------|-----------------------------|-------------------|-----------------|-----------------|---------------------|-----------------------|-------------------|------------------------|--------------|-----------------|---------------|---------------|------------------|----------------|---------------|----|-----|--------------|---------------|
| | | | | | | | | | | Clarity (cm) | Level (mm) | Vel. (1-4) | | | A | Hz | V | Net (1-4) | Boat (1-4) |
| Zone 1 | | | | | | | | | | | | | | | | | | | |
| ES0113 | | | | | | | | | | | | | | | | | | | |
| | 27/08/2001 11:45:00 AM | 2000 1329 | SFN | A3 | Run | Cobble | None | 2 | 3.0 | 10 | 2285 | 3 | 200 | 2 | 3 | 60 | 354 | 1 | 1 |
| | 22/10/2001 2:30:00 PM | 2000 1076 | SFN | A3 | Run | Cobble | None | 2 | 6.0 | 85 | 3168 | 3 | 190 | 3 | 3.5 | 60 | 354 | 1 | 1 |
| ES0114 | | | | | | | | | | | | | | | | | | | |
| | 27/08/2001 1:30:00 PM | 2000 1638 | SFC | A2 | Run | Cobble | LOD; Bank | 2 | 13.0 | 55 | 2370 | 3 | 200 | 2 | 3 | 60 | 354 | 1 | 1 |
| | 22/10/2001 3:30:00 PM | 1800 1122 | SFC | A2 | Run | Cobble | LOD; Bank | 2 | 6.0 | 85 | 3162 | 3 | 190 | 3 | 3.5 | 60 | 354 | 1 | 1 |
| Zone 2 | | | | | | | | | | | | | | | | | | | |
| ES0201 | | | | | | | | | | | | | | | | | | | |
| | 23/08/2001 11:30:00 AM | 800 527 | SLN | D3 | Flat | Sand | None | 2 | 11.5 | 110 | 1951 | 4 | 180 | 2 | 3 | 60 | 354 | 1 | 1 |
| | 18/10/2001 11:45:00 AM | 800 725 | SLN | D3 | Flat | Sand | None | 2 | 8.0 | 100 | 2961 | 4 | 160 | 2 | 3.2 | 60 | 354 | 1 | 1 |
| ES0202 | | | | | | | | | | | | | | | | | | | |
| | 23/08/2001 12:15:00 PM | 2000 1318 | SLN | D3 | Flat | Sand | Bank | 4 | 11.5 | 110 | 1912 | 3 | 180 | 2 | 3 | 60 | 354 | 1 | 1 |
| | 18/10/2001 2:00:00 PM | 1800 841 | SLN | E2 | Flat | Sand | Bank | 4 | 8.0 | 100 | 2968 | 3 | 160 | 1 | 3.2 | 60 | 354 | 1 | 1 |
| ES0203 | | | | | | | | | | | | | | | | | | | |
| | 23/08/2001 1:30:00 PM | 500 863 | CON | TCD3 | Confluence | Sand | None | 4 | 11.5 | 65 | 1844 | 4 | 190 | 3 | 3 | 60 | 354 | 1 | 1 |
| | 18/10/2001 2:40:00 PM | 500 621 | CON | TCD3 | Confluence | Sand | None | 4 | 5.0 | 100 | 2970 | 3 | 180 | 1 | 3.2 | 60 | 354 | 1 | 1 |
| ES0204 | | | | | | | | | | | | | | | | | | | |
| | 23/08/2001 2:45:00 PM | 2000 1158 | SFC | A2 | Run | Cobble | Rock; LOD; Bank | 2 | 12.0 | 65 | 1794 | 3 | 190 | 3 | 3 | 60 | 354 | 1 | 1 |
| | 18/10/2001 3:15:00 PM | 1000 591 | SFC | A2 | Run | Cobble | Rock; LOD; Bank | 2 | 8.0 | 100 | 2979 | 2 | 180 | 2 | 3.2 | 60 | 354 | 1 | 1 |

Appendix B Table B1. Boat electrofisher sampling conditions during Phase I of the Peace River Fish Community Indexing Program, 2001.

| Area | Site Label | Date and Time | Effort (m) (s) | Habitat Type | Bank Habitat | Instream Habitat | Dominant Substrate | Dominant Cover | Bank Slope (1-4) | Water | | | | Cond. (us/cm) | Light (1-4) | Electrofisher | | | Skill | | |
|--------|------------|---------------|-------------------|-----------------|-----------------|---------------------|-----------------------|-------------------|------------------------|--------------|-----------------|---------------|---------------|------------------|----------------|---------------|-----|----|--------------|---------------|---|
| | | | | | | | | | | Temp. (C) | Clarity (cm) | Level (mm) | Vel. (1-4) | | | A | Hz | V | Net (1-4) | Boat (1-4) | |
| Zone 2 | | | | | | | | | | | | | | | | | | | | | |
| ES0205 | | | | | | | | | | | | | | | | | | | | | |
| | 23/08/2001 | 3:30:00 PM | 1500 | 805 | SLN | A2 | Flat | Cobble | Bank | 4 | 12.0 | 110 | 1772 | 4 | 180 | 3 | 3 | 60 | 354 | 1 | 1 |
| | 18/10/2001 | 4:00:00 PM | 1300 | 830 | SLN | A2 | Flat | Cobble | Bank | 4 | 8.0 | 85 | 2991 | 4 | 160 | 1 | 3.2 | 60 | 354 | 1 | 1 |
| ES0206 | | | | | | | | | | | | | | | | | | | | | |
| | 23/08/2001 | 4:30:00 PM | 900 | 845 | SFN | A3 | Run | Cobble | None | 1 | 12.0 | 75 | 1768 | 3 | 180 | 2 | 3 | 60 | 354 | 1 | 1 |
| | 18/10/2001 | 4:30:00 PM | 500 | 334 | SFN | A3 | Run | Cobble | None | 1 | 7.0 | 85 | 3002 | 2 | 160 | 1 | 3.2 | 60 | 354 | 1 | 1 |
| ES0207 | | | | | | | | | | | | | | | | | | | | | |
| | 23/08/2001 | 5:15:00 PM | 1400 | 1637 | BAC | D3 | Snye | Silt | None | 3 | 15.0 | 75 | 1796 | 4 | 250 | 3 | 3 | 60 | 354 | 1 | 1 |
| | 19/10/2001 | 11:30:00 AM | 1400 | 1375 | BAC | D3 | Snye | Sand | None | 3 | 4.0 | 75 | 3064 | 4 | 160 | 2 | 4.5 | 60 | 354 | 1 | 1 |
| ES0208 | | | | | | | | | | | | | | | | | | | | | |
| | 24/08/2001 | 10:15:00 AM | 800 | 627 | SLC | A1 | Run | Cobble | Rock; Bank | 3 | 11.0 | 65 | 2257 | 2 | 170 | 1 | 3 | 60 | 354 | 1 | 1 |
| | 19/10/2001 | 12:15:00 PM | 800 | 506 | SLC | A1 | Run | Cobble | Rock; Bank | 3 | 7.5 | 75 | 3040 | 1 | 160 | 2 | 3 | 60 | 354 | 1 | 1 |
| ES0209 | | | | | | | | | | | | | | | | | | | | | |
| | 24/08/2001 | 11:15:00 AM | 1400 | 1184 | SLN | E3 | Flat | Sand | Bank | 4 | 11.0 | 65 | 2159 | 4 | 170 | 1 | 3 | 60 | 354 | 1 | 1 |
| | 19/10/2001 | 2:15:00 PM | 600 | 915 | SLN | E2 | Flat | Sand | Bank | 4 | 7.5 | 80 | 2998 | 3 | 160 | 2 | 3 | 60 | 354 | 1 | 1 |
| ES0210 | | | | | | | | | | | | | | | | | | | | | |
| | 24/08/2001 | 12:00:00 PM | 2200 | 1286 | SFN | A3 | Run | Cobble | None | 1 | 11.0 | 65 | 2082 | 3 | 170 | 1 | 3 | 60 | 354 | 1 | 1 |
| | 19/10/2001 | 3:00:00 PM | 1000 | 385 | SFN | A3 | Run | Cobble | None | 1 | 7.5 | 80 | 2988 | 3 | 160 | 1 | 3 | 60 | 354 | 1 | 1 |

Appendix B Table B1. Boat electrofisher sampling conditions during Phase I of the Peace River Fish Community Indexing Program, 2001.

| Area | Site Label | Date and Time | Effort (m) (s) | Habitat Type | Bank Habitat | Instream Habitat | Dominant Substrate | Dominant Cover | Bank Slope (1-4) | Temp. (C) | Water | | | Cond. (us/cm) | Light (1-4) | Electrofisher | | | Skill | |
|--------|------------|---------------|-------------------|-----------------|-----------------|---------------------|-----------------------|-------------------|------------------------|--------------|-----------------|---------------|---------------|------------------|----------------|---------------|----|-----|--------------|---------------|
| | | | | | | | | | | | Clarity (cm) | Level (mm) | Vel. (1-4) | | | A | Hz | V | Net (1-4) | Boat (1-4) |
| Zone 2 | | | | | | | | | | | | | | | | | | | | |
| ES0211 | | | | | | | | | | | | | | | | | | | | |
| | 24/08/2001 | 1:30:00 PM | 700 1683 | BAC | D3 | Snye | Sand | None | 4 | 13.0 | 65 | 1939 | 4 | 170 | 1 | 3 | 60 | 354 | 1 | 1 |
| | 19/10/2001 | 3:30:00 PM | 700 1033 | BAC | D3 | Snye | Sand | None | 4 | 6.5 | 95 | 2985 | 4 | 150 | 1 | 3 | 60 | 354 | 1 | 1 |
| ES0212 | | | | | | | | | | | | | | | | | | | | |
| | 24/08/2001 | 2:00:00 PM | 1600 858 | SFC | A2 | Run | Cobble | Bank | 2 | 12.0 | 65 | 1903 | 4 | 170 | 1 | 3 | 60 | 354 | 1 | 1 |
| | 19/10/2001 | 4:00:00 PM | 1400 631 | SFC | A2 | Run | Cobble | Bank | 2 | 8.0 | 95 | 2986 | 3 | 160 | 2 | 3 | 60 | 354 | 1 | 1 |
| ES0213 | | | | | | | | | | | | | | | | | | | | |
| | 24/08/2001 | 2:30:00 PM | 1000 856 | SLC | A2 | Run | Boulder | Rock | 3 | 12.5 | 65 | 1870 | 1 | 170 | 1 | 3 | 60 | 354 | 1 | 1 |
| | 19/10/2001 | 4:30:00 PM | 800 519 | SLC | A2 | Run | Boulder | Rock | 3 | 8.0 | 80 | 2990 | 1 | 160 | 2 | 3 | 60 | 354 | 1 | 1 |
| ES0214 | | | | | | | | | | | | | | | | | | | | |
| | 24/08/2001 | 3:15:00 PM | 2000 1007 | SLN | A3 | Shoal | Cobble | None | 1 | 13.0 | 60 | 1834 | 4 | 170 | 1 | 3 | 60 | 354 | 1 | 1 |
| | 19/10/2001 | 4:45:00 PM | 1200 630 | SFN | A3 | Run | Cobble | None | 1 | 8.0 | 80 | 2994 | 3 | 160 | 2 | 3 | 60 | 354 | 1 | 1 |
| ES0215 | | | | | | | | | | | | | | | | | | | | |
| | 24/08/2001 | 4:00:00 PM | 1000 647 | CON | TCD3 | Confluence | Sand | None | 4 | 14.5 | 60 | 1812 | 4 | 240 | 1 | 3 | 60 | 354 | 1 | 1 |
| | 19/10/2001 | 5:00:00 PM | 500 659 | CON | TCD3 | Confluence | Sand | None | 4 | 4.0 | 80 | 2999 | 3 | 230 | 2 | 3 | 60 | 354 | 1 | 1 |
| ES0216 | | | | | | | | | | | | | | | | | | | | |
| | 23/08/2001 | 11:40:00 AM | 1200 529 | SFC | A2 | Run | Cobble | Bank | 2 | 12.0 | 110 | 1925 | 3 | 180 | 2 | 3 | 60 | 354 | 1 | 1 |
| | 18/10/2001 | 12:30:00 PM | 1200 767 | SFC | A2 | Run | Cobble | Bank | 2 | 8.0 | 85 | 2961 | 3 | 160 | 2 | 3.2 | 60 | 354 | 1 | 1 |

Appendix B Table B1. Boat electrofisher sampling conditions during Phase I of the Peace River Fish Community Indexing Program, 2001.

| Area | Site Label | Date and Time | Effort (m) (s) | Habitat Type | Bank Habitat | Instream Habitat | Dominant Substrate | Dominant Cover | Bank Slope (1-4) | Temp. (C) | Water | | | Cond. (us/cm) | Light (1-4) | Electrofisher | | | Skill | |
|--------|------------|---------------|-------------------|-----------------|-----------------|---------------------|-----------------------|-------------------|------------------------|--------------|-----------------|---------------|---------------|------------------|----------------|---------------|----|-----|--------------|---------------|
| | | | | | | | | | | | Clarity (cm) | Level (mm) | Vel. (1-4) | | | A | Hz | V | Net (1-4) | Boat (1-4) |
| Zone 2 | | | | | | | | | | | | | | | | | | | | |
| ES0217 | | | | | | | | | | | | | | | | | | | | |
| | 24/08/2001 | 10:00:00 AM | 1000 627 | SFN | A3 | Shoal | Cobble | Rock | 1 | 11.5 | 65 | 2279 | 3 | 170 | 1 | 3 | 60 | 354 | 1 | 1 |
| | 19/10/2001 | 1:00:00 PM | 1000 395 | SFN | A3 | Run | Cobble | Rock | 1 | 7.5 | 80 | 3019 | 3 | 160 | 2 | 3 | 60 | 354 | 1 | 1 |
| Zone 3 | | | | | | | | | | | | | | | | | | | | |
| ES0301 | | | | | | | | | | | | | | | | | | | | |
| | 20/08/2001 | 1:00:00 PM | 2000 1440 | SFC | A1 | Run | Boulder | Rock; Bank | 2 | 12.0 | 145 | 1143 | 3 | 170 | 2 | 2.5 | 60 | 354 | 1 | 1 |
| | 15/10/2001 | 2:30:00 PM | 900 492 | SFC | A1 | Run | Boulder | Rock; Bank | 2 | 7.5 | 90 | 2453 | 2 | 210 | 3 | 3 | 60 | 354 | 1 | 1 |
| ES0302 | | | | | | | | | | | | | | | | | | | | |
| | 20/08/2001 | 2:00:00 PM | 2000 940 | SFN | A3 | Run | Cobble | None | 1 | 12.0 | 45 | 1139 | 3 | 310 | 1 | 2.5 | 60 | 354 | 1 | 1 |
| | 15/10/2001 | 3:15:00 PM | 400 250 | SFN | A3 | Run | Cobble | None | 1 | 7.5 | 95 | 2462 | 2 | 210 | 3 | 3 | 60 | 354 | 1 | 1 |
| ES0303 | | | | | | | | | | | | | | | | | | | | |
| | 20/08/2001 | 3:00:00 PM | 2000 1874 | SFC | A2 | Run | Cobble | LOD; Bank | 3 | 12.5 | 145 | 1136 | 3 | 140 | 1 | 2.5 | 60 | 354 | 1 | 1 |
| | 15/10/2001 | 4:15:00 PM | 1300 872 | SFC | A2 | Run | Cobble | LOD; Bank | 3 | 7.5 | 95 | 2471 | 3 | 210 | 3 | 3 | 60 | 354 | 1 | 1 |
| ES0304 | | | | | | | | | | | | | | | | | | | | |
| | 20/08/2001 | 4:00:00 PM | 1000 951 | SFC | A1 | Run | Cobble | Rock; LOD; Bank | 2 | 12.5 | 120 | 1137 | 2 | 140 | 1 | 2.5 | 60 | 354 | 1 | 1 |
| | 16/10/2001 | 11:30:00 AM | 1400 788 | SFC | A1 | Run | Cobble | Rock; Bank | 2 | 8.0 | 100 | 2403 | 2 | 170 | 2 | 3 | 60 | 354 | 1 | 1 |
| ES0305 | | | | | | | | | | | | | | | | | | | | |
| | 20/08/2001 | 5:00:00 PM | 2000 1177 | SFN | A3 | Run | Cobble | None | 2 | 12.0 | 85 | 1142 | 3 | 160 | 2 | 2.5 | 60 | 354 | 1 | 1 |
| | 16/10/2001 | 12:00:00 PM | 300 496 | SFN | A3 | Run | Cobble | None | 2 | 8.0 | 100 | 2455 | 3 | 170 | 2 | 3 | 60 | 354 | 1 | 1 |

Appendix B Table B1. Boat electrofisher sampling conditions during Phase I of the Peace River Fish Community Indexing Program, 2001.

| Area | Site Label | Date and Time | Effort (m) (s) | Habitat Type | Bank Habitat | Instream Habitat | Dominant Substrate | Dominant Cover | Bank Slope (1-4) | Water | | | | Cond. (us/cm) | Light (1-4) | Electrofisher | | | Skill | |
|--------|------------|---------------|-------------------|-----------------|-----------------|---------------------|-----------------------|-------------------|------------------------|--------------|-----------------|---------------|---------------|------------------|----------------|---------------|----|-----|--------------|---------------|
| | | | | | | | | | | Temp. (C) | Clarity (cm) | Level (mm) | Vel. (1-4) | | | A | Hz | V | Net (1-4) | Boat (1-4) |
| Zone 3 | | | | | | | | | | | | | | | | | | | | |
| ES0306 | | | | | | | | | | | | | | | | | | | | |
| | 21/08/2001 | 10:30:00 AM | 2000 1790 | SFC | A2 | Flat | Cobble | Rock; Bank | 3 | 10.5 | 200 | 1138 | 4 | 140 | 3 | 2.5 | 60 | 354 | 1 | 1 |
| | 15/10/2001 | 10:30:00 AM | 1000 568 | SFC | A2 | Run | Cobble | Rock; Bank | 3 | 8.0 | 123 | 2348 | 2 | 170 | 3 | 3 | 60 | 354 | 1 | 1 |
| ES0307 | | | | | | | | | | | | | | | | | | | | |
| | 21/08/2001 | 11:45:00 AM | 1500 927 | SFN | A3 | Run | Cobble | None | 1 | 10.5 | 200 | 1139 | 3 | 140 | 3 | 2.5 | 60 | 354 | 1 | 1 |
| | 15/10/2001 | 11:30:00 AM | 1000 686 | SFN | A3 | Run | Cobble | None | 1 | 8.0 | 123 | 2373 | 3 | 170 | 3 | 3 | 60 | 354 | 1 | 1 |
| ES0308 | | | | | | | | | | | | | | | | | | | | |
| | 21/08/2001 | 1:00:00 PM | 600 694 | BAC | D3 | Snye | Sand | None | 1 | 12.0 | 200 | 1137 | 4 | 140 | 3 | 2.5 | 60 | 354 | 1 | 1 |
| | 15/10/2001 | 12:30:00 PM | 600 639 | BAC | D3 | Snye | Sand | None | 1 | 8.0 | 123 | 2403 | 4 | 170 | 3 | 3.2 | 60 | 354 | 1 | 1 |
| ES0309 | | | | | | | | | | | | | | | | | | | | |
| | 21/08/2001 | 2:15:00 PM | 1000 569 | SFN | A3 | Run | Cobble | None | 1 | 10.5 | 65 | 1139 | 3 | 210 | 3 | 2.5 | 60 | 354 | 1 | 1 |
| | 15/10/2001 | 1:00:00 PM | 800 463 | SFN | A3 | Run | Cobble | None | 1 | 7.0 | 90 | 2418 | 2 | 240 | 3 | 3.2 | 60 | 354 | 1 | 1 |
| ES0310 | | | | | | | | | | | | | | | | | | | | |
| | 21/08/2001 | 3:00:00 PM | 2000 854 | SFN | A3 | Run | Cobble | None | 2 | 10.5 | 65 | 1147 | 3 | 210 | 3 | 2.5 | 60 | 354 | 1 | 1 |
| | 15/10/2001 | 1:45:00 PM | 200 171 | SFN | A3 | Run | Cobble | None | 2 | 7.5 | 90 | 2439 | 2 | 210 | 3 | 3 | 60 | 354 | 1 | 1 |
| ES0311 | | | | | | | | | | | | | | | | | | | | |
| | 21/08/2001 | 4:15:00 PM | 1500 854 | SLC | A1 | Run | Boulder | Rock; Bank | 3 | 10.5 | 85 | 1301 | 3 | 190 | 3 | 2.5 | 60 | 354 | 1 | 1 |
| | 16/10/2001 | 1:30:00 PM | 1300 655 | SLC | A1 | Run | Boulder | Rock; Bank | 3 | 8.0 | 100 | 2569 | 3 | 170 | 2 | 3 | 60 | 354 | 1 | 1 |

Appendix B Table B1. Boat electrofisher sampling conditions during Phase I of the Peace River Fish Community Indexing Program, 2001.

| Area | Site Label Date and Time | Effort (m) (s) | Habitat Type | Bank Habitat | Instream Habitat | Dominant Substrate | Dominant Cover | Bank Slope (1-4) | Temp. (C) | Water | | | Cond. (us/cm) | Light (1-4) | Electrofisher | | | Skill | |
|--------|-----------------------------|-------------------|-----------------|-----------------|---------------------|-----------------------|-------------------|------------------------|--------------|-----------------|---------------|---------------|------------------|----------------|---------------|----|-----|--------------|---------------|
| | | | | | | | | | | Clarity (cm) | Level (mm) | Vel. (1-4) | | | A | Hz | V | Net (1-4) | Boat (1-4) |
| Zone 3 | | | | | | | | | | | | | | | | | | | |
| ES0312 | | | | | | | | | | | | | | | | | | | |
| | 21/08/2001 5:00:00 PM | 2000 1397 | SFC | A1 | Run | Cobble | Rock; Bank | 2 | 10.5 | 110 | 1513 | 2 | 160 | 3 | 2.5 | 60 | 354 | 1 | 1 |
| | 16/10/2001 2:30:00 PM | 1500 747 | SFC | A1 | Run | Cobble | Rock; Bank | 2 | 8.0 | 100 | 2603 | 2 | 160 | 2 | 3 | 60 | 354 | 1 | 1 |
| ES0313 | | | | | | | | | | | | | | | | | | | |
| | 21/08/2001 2:00:00 PM | 300 532 | CON | TCD3 | Confluence | Sand | None | 4 | 12.5 | 85 | 1138 | 4 | 200 | 3 | 2.5 | 60 | 354 | 2 | 1 |
| | 16/10/2001 1:00:00 PM | 300 649 | CON | TCD3 | Confluence | Sand | None | 4 | 8.0 | 100 | 2539 | 3 | 170 | 2 | 3 | 60 | 354 | 1 | 1 |
| Zone 4 | | | | | | | | | | | | | | | | | | | |
| ES0401 | | | | | | | | | | | | | | | | | | | |
| | 17/08/2001 9:30:00 AM | 800 678 | SFN | A3 | Run | Cobble | None | 1 | 11.5 | 170 | 750 | 1 | 210 | 2 | 2.5 | 60 | 354 | 1 | 1 |
| | 12/10/2001 11:30:00 AM | 600 289 | SFN | A3 | Run | Cobble | None | 1 | 9.0 | 95 | 2222 | 1 | 160 | 2 | 3.5 | 60 | 354 | 1 | 1 |
| ES0402 | | | | | | | | | | | | | | | | | | | |
| | 17/08/2001 10:00:00 AM | 200 225 | CON | TCD2 | Confluence | Cobble | None | 4 | 11.5 | 170 | 750 | 3 | 210 | 2 | 2.5 | 60 | 354 | 1 | 1 |
| | 12/10/2001 12:30:00 PM | 200 443 | CON | TCD2 | Confluence | Cobble | None | 4 | 7.0 | 95 | 2371 | 3 | 340 | 2 | 3 | 60 | 354 | 1 | 1 |
| ES0403 | | | | | | | | | | | | | | | | | | | |
| | 17/08/2001 10:45:00 AM | 1000 725 | SFC | A2 | Run | Boulder | Rock; Bank | 2 | 11.5 | 170 | 748 | 2 | 210 | 2 | 2.5 | 60 | 354 | 1 | 1 |
| | 12/10/2001 1:30:00 PM | 700 406 | SFC | A2 | Run | Boulder | Rock; Bank | 2 | 9.0 | 105 | 2424 | 2 | 160 | 2 | 3.5 | 60 | 354 | 1 | 1 |
| ES0404 | | | | | | | | | | | | | | | | | | | |
| | 17/08/2001 12:00:00 PM | 1000 482 | SFN | A3 | Run | Cobble | None | 1 | 11.5 | 145 | 747 | 2 | 130 | 2 | 2.5 | 60 | 354 | 1 | 1 |
| | 12/10/2001 2:30:00 PM | 700 336 | SFN | A3 | Shoal | Cobble | None | 1 | 9.0 | 100 | 2427 | 2 | 160 | 2 | 3.5 | 60 | 354 | 1 | 1 |

Appendix B Table B1. Boat electrofisher sampling conditions during Phase I of the Peace River Fish Community Indexing Program, 2001.

| Area | Site Label | Date and Time | Effort (m) (s) | Habitat Type | Bank Habitat | Instream Habitat | Dominant Substrate | Dominant Cover | Bank Slope (1-4) | Temp. (C) | Water | | | Cond. (us/cm) | Light (1-4) | Electrofisher | | | Skill | |
|--------|------------|---------------|-------------------|-----------------|-----------------|---------------------|-----------------------|-------------------|------------------------|--------------|-----------------|---------------|---------------|------------------|----------------|---------------|----|-----|--------------|---------------|
| | | | | | | | | | | | Clarity (cm) | Level (mm) | Vel. (1-4) | | | A | Hz | V | Net (1-4) | Boat (1-4) |
| Zone 4 | | | | | | | | | | | | | | | | | | | | |
| ES0405 | | | | | | | | | | | | | | | | | | | | |
| | 17/08/2001 | 1:00:00 PM | 1000 690 | SFC | A2 | Run | Cobble | Bank | 3 | 12.0 | 170 | 745 | 3 | 130 | 2 | 2.5 | 60 | 354 | 1 | 1 |
| | 12/10/2001 | 3:30:00 PM | 1400 346 | SFC | A2 | Run | Cobble | Bank | 3 | 9.0 | 100 | 2434 | 2 | 160 | 2 | 3.5 | 60 | 354 | 1 | 1 |
| ES0406 | | | | | | | | | | | | | | | | | | | | |
| | 17/08/2001 | 2:15:00 PM | 200 331 | CON | TCD3 | Confluence | Sand | None | 4 | 12.0 | 50 | 748 | 4 | 140 | 1 | 2.5 | 60 | 354 | 1 | 1 |
| | 12/10/2001 | 4:30:00 PM | 200 362 | CON | TCD3 | Confluence | Sand | None | 4 | 9.0 | 100 | 2375 | 3 | 160 | 2 | 3.5 | 60 | 354 | 1 | 1 |
| ES0407 | | | | | | | | | | | | | | | | | | | | |
| | 17/08/2001 | 3:15:00 PM | 1000 518 | SFC | A1 | Run | Boulder | Rock; Bank | 3 | 12.0 | 145 | 780 | 1 | 140 | 1 | 2.5 | 60 | 354 | 1 | 1 |
| | 13/10/2001 | 10:00:00 AM | 900 377 | SFC | A1 | Run | Boulder | Rock; Bank | 3 | 9.0 | 100 | 2307 | 1 | 160 | 2 | 3 | 60 | 354 | 1 | 1 |
| ES0408 | | | | | | | | | | | | | | | | | | | | |
| | 17/08/2001 | 4:30:00 PM | 1000 548 | SFC | A2 | Run | Cobble | Rock; Bank | 1 | 12.0 | 145 | 820 | 2 | 150 | 1 | 2.5 | 60 | 354 | 1 | 1 |
| | 13/10/2001 | 11:15:00 AM | 900 349 | SFC | A2 | Run | Cobble | Rock; Bank | 1 | 9.0 | 100 | 2380 | 2 | 160 | 2 | 3 | 60 | 354 | 1 | 1 |
| ES0409 | | | | | | | | | | | | | | | | | | | | |
| | 18/08/2001 | 12:30:00 PM | 700 629 | SFN | A3 | Run | Cobble | None | 1 | 11.5 | 180 | 850 | 3 | 150 | 2 | 3 | 60 | 354 | 1 | 1 |
| ES0410 | | | | | | | | | | | | | | | | | | | | |
| | 18/08/2001 | 1:30:00 PM | 1000 824 | SFN | A3 | Run | Cobble | Rock | 1 | 11.5 | 180 | 895 | 3 | 150 | 1 | 2.5 | 60 | 354 | 1 | 1 |
| | 13/10/2001 | 12:30:00 PM | 600 489 | SFN | A3 | Run | Cobble | Rock | 1 | 9.0 | 100 | 2432 | 3 | 150 | 2 | 3 | 60 | 354 | 1 | 1 |
| ES0411 | | | | | | | | | | | | | | | | | | | | |
| | 18/08/2001 | 2:30:00 PM | 300 291 | CON | TCD3 | Confluence | Sand | None | 4 | 12.0 | 80 | 1341 | 4 | 130 | 1 | 2.5 | 60 | 354 | 1 | 1 |
| | 13/10/2001 | 1:30:00 PM | 300 417 | CON | TCD3 | Confluence | Sand | None | 4 | 9.0 | 90 | 2435 | 3 | 170 | 2 | 3 | 60 | 354 | 1 | 1 |

Appendix B Table B1. Boat electrofisher sampling conditions during Phase I of the Peace River Fish Community Indexing Program, 2001.

| Area | Site Label Date and Time | Effort (m) (s) | Habitat Type | Bank Habitat | Instream Habitat | Dominant Substrate | Dominant Cover | Bank Slope (1-4) | Temp. (C) | Water | | | Cond. (us/cm) | Light (1-4) | Electrofisher | | | Skill | |
|------------|-----------------------------|-------------------|-----------------|-----------------|---------------------|-----------------------|-------------------|------------------------|--------------|-----------------|---------------|---------------|------------------|----------------|---------------|----|-----|--------------|---------------|
| | | | | | | | | | | Clarity (cm) | Level (mm) | Vel. (1-4) | | | A | Hz | V | Net (1-4) | Boat (1-4) |
| Zone 4 | | | | | | | | | | | | | | | | | | | |
| ES0412 | | | | | | | | | | | | | | | | | | | |
| 18/08/2001 | 3:15:00 PM | 1000 745 | SFC | A2 | Run | Cobble | Bank | 2 | 12.0 | 180 | 1462 | 3 | 150 | 2 | 2.5 | 60 | 354 | 1 | 1 |
| 13/10/2001 | 2:30:00 PM | 1000 729 | SFC | A2 | Run | Cobble | Bank | 2 | 9.0 | 90 | 2431 | 3 | 170 | 2 | 3 | 60 | 354 | 1 | 1 |
| ES0413 | | | | | | | | | | | | | | | | | | | |
| 18/08/2001 | 4:30:00 PM | 1000 1049 | SFC | A2 | Flat | Cobble | LOD; Bank | 3 | 12.0 | 180 | 1514 | 4 | 150 | 1 | 2.5 | 60 | 354 | 1 | 1 |
| 13/10/2001 | 3:30:00 PM | 1000 600 | SFC | A2 | Run | Cobble | LOD; Bank | 3 | 9.0 | 85 | 2427 | 3 | 160 | 2 | 3 | 60 | 354 | 1 | 1 |
| ES0414 | | | | | | | | | | | | | | | | | | | |
| 18/08/2001 | 5:15:00 PM | 700 472 | SFC | A2 | Run | Cobble | Rock; Bank | 2 | 12.0 | 180 | 1522 | 3 | 130 | 1 | 2.5 | 60 | 354 | 1 | 1 |
| 13/10/2001 | 4:30:00 PM | 600 535 | SFC | A2 | Run | Cobble | Rock; Bank | 2 | 9.0 | 85 | 2429 | 2 | 170 | 1 | 3 | 60 | 354 | 1 | 1 |

Appendix B Table B2. Beach seine sampling conditions during Phase I of the Peace River Fish Community Indexing Program, 2001.

| Area | Site Label and Waterbody Date and Time | | Effort (m) | Habitat Type | Bank Habitat | Instream Habitat | Substrate | | | | | Cover | | | Bank Slope (1-4) | Temp. (C) | Water | | | Cond. (us/cm) | Light (1-4) | Efficiency (1-4) |
|-------------------------|---|-------------|---------------|-----------------|-----------------|---------------------|-----------|-----|----|----|----|-------|-----|-----|------------------------|--------------|---------------|--------------|---------------|------------------|----------------|---------------------|
| | | | | | | | Si | Sa | Gr | Co | Bo | Rock | LOD | Veg | | | Level (mm) | Depth (m) | Vel. (m/s) | | | |
| Zone 1 | | | | | | | | | | | | | | | | | | | | | | |
| BS0101 Peace River | | | | | | | | | | | | | | | | | | | | | | |
| | 25/08/2001 | 4:30:00 PM | 60 | CON | TCD2 | Confluence | 50 | 50 | | | | | | 2 | 17.0 | 15 | 1832 | 0.59 | 0.04 | 220 | 3 | 2 |
| | 23/10/2001 | 10:55:00 AM | 30 | CON | TCD2 | Confluence | 50 | 50 | | | | | | 2 | 2.0 | 50 | 3180 | 0.75 | 0.00 | 290 | 3 | 1 |
| | 23/10/2001 | 10:55:00 AM | 35 | CON | TCD2 | Confluence | 50 | 50 | | | | | | 2 | 2.0 | 50 | 3180 | 0.35 | 0.00 | 290 | 3 | 1 |
| | 23/10/2001 | 10:55:00 AM | 40 | CON | TCD2 | Confluence | 50 | 50 | | | | | | 2 | 2.0 | 50 | 3180 | 0.80 | 0.00 | 290 | 3 | 1 |
| BS0102 Beatton River | | | | | | | | | | | | | | | | | | | | | | |
| | 25/08/2001 | 4:45:00 PM | 80 | SLN | D2 | Shoal | 50 | 50 | | | | | | 2 | 18.0 | 10 | 1834 | 0.24 | 0.00 | 250 | 3 | 1 |
| | 23/10/2001 | 10:30:00 AM | 35 | SLN | D2 | Shoal | 10 | 30 | 60 | | | | | 1 | 1.0 | 45 | 3162 | 0.70 | 0.00 | 310 | 3 | 1 |
| | 23/10/2001 | 10:30:00 AM | 35 | SLN | D2 | Shoal | 10 | 30 | 60 | | | | | 1 | 1.0 | 45 | 3162 | 0.35 | 0.00 | 310 | 3 | 1 |
| | 23/10/2001 | 10:30:00 AM | 30 | SLN | D2 | Shoal | 10 | 30 | 60 | | | | | 1 | 1.0 | 45 | 3162 | 0.95 | 0.00 | 310 | 3 | 1 |
| BS0103 Kiskatinaw River | | | | | | | | | | | | | | | | | | | | | | |
| | 28/08/2001 | 2:00:00 PM | 50 | SLN | D2 | Shoal | 50 | 50 | | | | | | 1 | 16.0 | 15 | 2491 | 0.44 | 0.00 | 450 | 2 | 1 |
| | 28/08/2001 | 2:00:00 PM | 50 | SLN | D2 | Shoal | 50 | 50 | | | | | | 1 | 16.0 | 15 | 2491 | 0.50 | 0.00 | 450 | 2 | 1 |
| | 23/10/2001 | 11:30:00 AM | 30 | SFN | D2 | Shoal | 50 | 50 | | | | | | 1 | 1.0 | 125 | 3196 | 1.10 | 0.00 | 480 | 3 | 1 |
| | 23/10/2001 | 11:30:00 AM | 30 | SLN | D2 | Shoal | 50 | 50 | | | | | | 1 | 1.0 | 125 | 3196 | 1.10 | 0.00 | 480 | 3 | 1 |
| | 23/10/2001 | 11:30:00 AM | 45 | SLN | D2 | Shoal | 50 | 50 | | | | | | 1 | 1.0 | 125 | 3196 | 0.60 | 0.00 | 480 | 3 | 1 |
| BS0104 Peace River | | | | | | | | | | | | | | | | | | | | | | |
| | 28/08/2001 | 2:00:00 PM | 50 | CON | TCD2 | Confluence | 50 | 50 | | | | | | 2 | 13.5 | 15 | 2491 | 0.45 | 0.00 | 390 | 1 | 1 |
| | 28/08/2001 | 2:30:00 PM | 45 | CON | TCD2 | Confluence | | 100 | | | | | | 2 | 13.5 | 15 | 2444 | 0.55 | 0.00 | 390 | 1 | 1 |
| | 23/10/2001 | 12:00:00 PM | 30 | CON | TCD3 | Confluence | 50 | 50 | | | | | | 2 | 6.0 | 110 | 3212 | 0.95 | 0.05 | 240 | 3 | 2 |
| | 23/10/2001 | 12:00:00 PM | 35 | CON | TCD3 | Confluence | 50 | 50 | | | | | | 2 | 6.0 | 110 | 3212 | 0.90 | 0.05 | 240 | 3 | 2 |
| | 23/10/2001 | 12:00:00 PM | 25 | CON | TCD2 | Confluence | 50 | 50 | | | | | | 2 | 6.0 | 110 | 3212 | 0.75 | 0.10 | 240 | 3 | 2 |

Appendix B Table B2. Beach seine sampling conditions during Phase I of the Peace River Fish Community Indexing Program, 2001.

| Area | Site Label and Waterbody Date and Time | | Effort (m) | Habitat Type | Bank Habitat | Instream Habitat | Substrate | | | | | Cover | | Bank Slope (1-4) | Temp. (C) | Water | | | Cond. (us/cm) | Light (1-4) | Efficiency (1-4) | |
|------------|---|--|---------------|-----------------|-----------------|---------------------|-----------|-----|----|----|----|-------|-----|------------------------|--------------|-------|-----------------|---------------|------------------|----------------|---------------------|--------------|
| | | | | | | | Si | Sa | Gr | Co | Bo | Rock | LOD | | | Veg | Clarity (cm) | Level (mm) | | | | Depth (m) |
| Zone 1 | | | | | | | | | | | | | | | | | | | | | | |
| BS0105 | Peace River | | | | | | | | | | | | | | | | | | | | | |
| 28/08/2001 | 2:45:00 PM | | 65 | SLN | D3 | Backwater | 100 | | | | | | | 1 | 13.0 | 55 | 2420 | 0.32 | 0.06 | 200 | 2 | 1 |
| 28/08/2001 | 2:45:00 PM | | 65 | SLN | D3 | Backwater | 100 | | | | | | | 1 | 13.0 | 55 | 2420 | 0.28 | 0.05 | 200 | 2 | 1 |
| BS0106 | Peace River | | | | | | | | | | | | | | | | | | | | | |
| 28/08/2001 | 3:20:00 PM | | 50 | SLN | D3 | Backwater | 100 | | | | | | | 1 | 13.0 | 10 | 2350 | 0.53 | 0.00 | 190 | 2 | 1 |
| BS0107 | Peace River | | | | | | | | | | | | | | | | | | | | | |
| 28/08/2001 | 1:45:00 PM | | 50 | SLN | D3 | Backwater | 100 | | | | | | | 1 | 13.0 | 55 | 2514 | 0.44 | 0.00 | 170 | 2 | 1 |
| 28/08/2001 | 1:45:00 PM | | 50 | SLN | D3 | Backwater | 100 | | | | | | | 1 | 13.0 | 55 | 2514 | 0.21 | 0.03 | 170 | 2 | 1 |
| 23/10/2001 | 12:30:00 PM | | 30 | SLN | D3 | Backwater | 100 | | | | | | | 1 | 6.0 | 95 | 3228 | 0.60 | 0.00 | 190 | 3 | 1 |
| 23/10/2001 | 12:30:00 PM | | 30 | SLN | D3 | Backwater | 100 | | | | | | | 1 | 6.0 | 95 | 3228 | 0.90 | 0.00 | 190 | 3 | 1 |
| 23/10/2001 | 12:30:00 PM | | 30 | SLN | D3 | Backwater | 100 | | | | | | | 1 | 6.0 | 95 | 3228 | 0.90 | 0.00 | 190 | 3 | 1 |
| BS0108 | Peace River | | | | | | | | | | | | | | | | | | | | | |
| 28/08/2001 | 4:00:00 PM | | 50 | SLN | D3 | Backwater | 100 | | | | | | | 1 | 13.0 | 55 | 2323 | 0.32 | 0.00 | 180 | 2 | 1 |
| 23/10/2001 | 1:00:00 PM | | 30 | SLN | D2 | Backwater | | 100 | | | | | | 2 | 6.0 | 90 | 3243 | 0.75 | 0.00 | 190 | 3 | 1 |
| 23/10/2001 | 1:00:00 PM | | 30 | SLN | D2 | Backwater | | 100 | | | | | | 2 | 6.0 | 90 | 3243 | 0.85 | 0.00 | 190 | 3 | 1 |
| 23/10/2001 | 1:00:00 PM | | 30 | SLN | D2 | Backwater | | 100 | | | | | | 2 | 6.0 | 90 | 3243 | 1.00 | 0.00 | 190 | 3 | 1 |
| BS0109 | Peace River | | | | | | | | | | | | | | | | | | | | | |
| 28/08/2001 | 4:20:00 PM | | 50 | SLN | A3 | Shoal | | 100 | | | | | | 1 | 13.0 | 55 | 2330 | 0.22 | 0.00 | 180 | 2 | 2 |
| BS0110 | Peace River | | | | | | | | | | | | | | | | | | | | | |
| 28/08/2001 | 5:30:00 PM | | 50 | SLN | A3 | Shoal | | 100 | | | | | | 1 | 13.0 | 85 | 2216 | 0.35 | 0.11 | 180 | 2 | 2 |
| Zone 2 | | | | | | | | | | | | | | | | | | | | | | |
| BS0201 | Peace River | | | | | | | | | | | | | | | | | | | | | |

Appendix B Table B2. Beach seine sampling conditions during Phase I of the Peace River Fish Community Indexing Program, 2001.

| Area | Site Label and Waterbody Date and Time | | Effort (m) | Habitat Type | Bank Habitat | Instream Habitat | Substrate | | | | | Cover | | Bank Slope (1-4) | Temp. (C) | Water | | | Cond. (us/cm) | Light (1-4) | Efficiency (1-4) |
|------------|---|--|---------------|-----------------|-----------------|---------------------|-----------|-----|----|----|----|-------|-----|------------------------|--------------|-------|-----------------|---------------|------------------|----------------|---------------------|
| | | | | | | | Si | Sa | Gr | Co | Bo | Rock | LOD | | | Veg | Clarity (cm) | Level (mm) | | | |
| Zone 2 | | | | | | | | | | | | | | | | | | | | | |
| BS0201 | Peace River | | | | | | | | | | | | | | | | | | | | |
| 24/08/2001 | 4:30:00 PM | | 50 | SLN | A3 | Backwater | 50 | 50 | | | | | 1 | 13.0 | 65 | 1807 | 0.40 | 0.00 | 170 | 2 | 1 |
| 24/08/2001 | 4:30:00 PM | | 50 | SLN | A3 | Backwater | 50 | 50 | | | | | 1 | 13.0 | 65 | 1807 | 0.50 | 0.00 | 170 | 2 | 1 |
| BS0202 | Peace River | | | | | | | | | | | | | | | | | | | | |
| 24/08/2001 | 5:15:00 PM | | 50 | CON | TCD2 | Confluence | | 100 | | | | | 2 | 13.0 | 60 | 1837 | 0.45 | 0.05 | 250 | 2 | 2 |
| 20/10/2001 | 4:45:00 PM | | 30 | CON | TCD2 | Confluence | 50 | 50 | | | | | 2 | 3.0 | 60 | 3130 | 0.60 | 0.00 | 290 | 3 | 1 |
| 20/10/2001 | 4:45:00 PM | | 30 | CON | TCD2 | Confluence | 50 | 50 | | | | | 2 | 3.0 | 60 | 3130 | 0.90 | 0.00 | 290 | 3 | 1 |
| 20/10/2001 | 4:45:00 PM | | 40 | CON | TCD2 | Confluence | 50 | 50 | | | | | 2 | 3.0 | 60 | 3130 | 0.70 | 0.05 | 290 | 3 | 1 |
| BS0203 | Peace River | | | | | | | | | | | | | | | | | | | | |
| 25/08/2001 | 10:30:00 AM | | 50 | BAC | D3 | Snye | 80 | 20 | | | | | 2 | 11.0 | 70 | 2209 | 0.48 | 0.00 | 170 | 2 | 1 |
| 25/08/2001 | 10:30:00 AM | | 50 | BAC | D3 | Snye | 80 | 20 | | | | | 2 | 11.0 | 70 | 2209 | 0.55 | 0.00 | 170 | 2 | 1 |
| 20/10/2001 | 10:30:00 AM | | 35 | BAC | D3 | Snye | 80 | 20 | | | | | 2 | 7.0 | 95 | 3114 | 0.95 | 0.00 | 170 | 3 | 1 |
| 20/10/2001 | 10:30:00 AM | | 45 | BAC | D3 | Snye | 80 | 20 | | | | | 2 | 7.0 | 95 | 3114 | 1.05 | 0.00 | 170 | 3 | 1 |
| 20/10/2001 | 10:30:00 AM | | 30 | BAC | D3 | Snye | 80 | 20 | | | | | 2 | 7.0 | 95 | 3114 | 1.05 | 0.00 | 170 | 3 | 1 |
| BS0204 | Peace River | | | | | | | | | | | | | | | | | | | | |
| 25/08/2001 | 11:00:00 AM | | 50 | SLN | D3 | Backwater | 100 | | | | | | 1 | 11.0 | 70 | 2163 | 0.50 | 0.00 | 170 | 2 | 1 |
| BS0205 | Peace River | | | | | | | | | | | | | | | | | | | | |
| 25/08/2001 | 11:30:00 AM | | 50 | CON | TCD3 | Confluence | 100 | | | | | | 2 | 11.1 | 70 | 2113 | 0.68 | 0.00 | 170 | 2 | 2 |
| BS0206 | Peace River | | | | | | | | | | | | | | | | | | | | |
| 25/08/2001 | 12:00:00 PM | | 35 | CON | TCD3 | Confluence | 100 | | | | | | 3 | 13.0 | 75 | 2067 | 0.40 | 0.00 | 200 | 2 | 2 |
| 20/10/2001 | 12:00:00 PM | | 30 | CON | TCD3 | Confluence | 100 | | | | | | 1 | 2.0 | 10 | 3113 | 0.60 | 0.00 | 240 | 3 | 1 |
| 20/10/2001 | 12:00:00 PM | | 30 | CON | TCD3 | Confluence | 100 | | | | | | 1 | 2.0 | 10 | 3113 | 0.60 | 0.05 | 240 | 3 | 1 |

Appendix B Table B2. Beach seine sampling conditions during Phase I of the Peace River Fish Community Indexing Program, 2001.

| Area | Site Label and Waterbody Date and Time | | Effort (m) | Habitat Type | Bank Habitat | Instream Habitat | Substrate | | | | | Cover | | Bank Slope (1-4) | Temp. (C) | Water | | | Cond. (us/cm) | Light (1-4) | Efficiency (1-4) | | |
|--------|---|-------------|---------------|-----------------|-----------------|---------------------|-----------|----|----|----|----|-------|-----|------------------------|--------------|-------|-----------------|---------------|------------------|----------------|---------------------|--------------|---------------|
| | | | | | | | Si | Sa | Gr | Co | Bo | Rock | LOD | | | Veg | Clarity (cm) | Level (mm) | | | | Depth (m) | Vel. (m/s) |
| Zone 2 | | | | | | | | | | | | | | | | | | | | | | | |
| BS0206 | Peace River | | | | | | | | | | | | | | | | | | | | | | |
| | 20/10/2001 | 12:00:00 PM | 30 | CON | TCD3 | Confluence | 100 | | | | | | | 1 | 2.0 | 10 | 3113 | 0.50 | 0.10 | 240 | 3 | 2 | |
| BS0207 | Peace River | | | | | | | | | | | | | | | | | | | | | | |
| | 25/08/2001 | 1:00:00 PM | 50 | BAC | D3 | Snye | 100 | | | | | | | 40 | 3 | 14.0 | 45 | 1975 | 0.35 | 0.00 | 370 | 2 | 1 |
| | 20/10/2001 | 1:30:00 PM | 30 | BAC | D3 | Snye | 100 | | | | | | | 65 | 1 | 5.0 | 40 | 3119 | 0.90 | 0.00 | 180 | 3 | 3 |
| | 20/10/2001 | 1:30:00 PM | 30 | BAC | D3 | Snye | 100 | | | | | | | 1 | | 5.0 | 40 | 3119 | 0.90 | 0.00 | 180 | 3 | 3 |
| | 20/10/2001 | 1:30:00 PM | 30 | BAC | D3 | Snye | 100 | | | | | | | 1 | | 5.0 | 40 | 3119 | 0.40 | 0.00 | 180 | 3 | 2 |
| | 20/10/2001 | 1:30:00 PM | 30 | BAC | D3 | Snye | 100 | | | | | | | 1 | | 5.0 | 40 | 3119 | 0.60 | 0.00 | 180 | 3 | 2 |
| | 20/10/2001 | 1:30:00 PM | 30 | BAC | D3 | Snye | 100 | | | | | | | 1 | | 5.0 | 40 | 3119 | 0.70 | 0.00 | 180 | 3 | 2 |
| | 20/10/2001 | 1:30:00 PM | 30 | BAC | D3 | Snye | 100 | | | | | | | 1 | | 5.0 | 40 | 3119 | 0.65 | 0.00 | 180 | 3 | 2 |
| BS0208 | Peace River | | | | | | | | | | | | | | | | | | | | | | |
| | 25/08/2001 | 1:15:00 PM | 40 | SLN | A3 | Backwater | 100 | | | | | | | 2 | 12.0 | 75 | 1956 | 0.26 | 0.00 | 170 | 1 | 1 | |
| BS0209 | Peace River | | | | | | | | | | | | | | | | | | | | | | |
| | 25/08/2001 | 2:15:00 PM | 70 | BAC | D3 | Snye | 100 | | | | | | | 1 | 14.0 | 40 | 1893 | 0.46 | 0.00 | 360 | 2 | 1 | |
| | 20/10/2001 | 2:30:00 PM | 30 | BAC | D3 | Snye | 100 | | | | | | | 1 | 6.0 | 140 | 3123 | 0.80 | 0.00 | 170 | 3 | 1 | |
| | 20/10/2001 | 2:30:00 PM | 35 | BAC | D3 | Snye | 100 | | | | | | | 1 | 6.0 | 140 | 3123 | 0.35 | 0.00 | 170 | 3 | 1 | |
| | 20/10/2001 | 2:30:00 PM | 35 | BAC | D3 | Snye | 100 | | | | | | | 1 | 6.0 | 140 | 3123 | 0.85 | 0.00 | 170 | 3 | 2 | |
| | 20/10/2001 | 2:30:00 PM | 30 | BAC | D3 | Snye | 100 | | | | | | | 1 | 6.0 | 140 | 3123 | 0.90 | 0.00 | 170 | 3 | 1 | |
| | 20/10/2001 | 2:30:00 PM | 35 | BAC | D3 | Snye | 100 | | | | | | | 1 | 6.0 | 140 | 3123 | 0.95 | 0.00 | 170 | 3 | 1 | |
| | 20/10/2001 | 2:30:00 PM | 35 | BAC | D3 | Snye | 100 | | | | | | | 1 | 6.0 | 140 | 3123 | 0.40 | 0.00 | 170 | 3 | 1 | |
| BS0210 | Moberly River | | | | | | | | | | | | | | | | | | | | | | |
| | 20/10/2001 | 11:30:00 AM | 30 | SLN | D2 | Shoal | 20 | 30 | 50 | | | | | | 2 | 1.0 | 45 | 3112 | 0.60 | 0.05 | 230 | 3 | 2 |

Appendix B Table B2. Beach seine sampling conditions during Phase I of the Peace River Fish Community Indexing Program, 2001.

| Area | Site Label and Waterbody Date and Time | | Effort (m) | Habitat Type | Bank Habitat | Instream Habitat | Substrate | | | | | Cover | | Bank Slope (1-4) | Temp. (C) | Water | | | Cond. (us/cm) | Light (1-4) | Efficiency (1-4) |
|--------|---|---------------|---------------|-----------------|-----------------|---------------------|-----------|----|----|----|----|-------|-----|------------------------|--------------|-------|-----------------|---------------|------------------|----------------|---------------------|
| | | | | | | | Si | Sa | Gr | Co | Bo | Rock | LOD | | | Veg | Clarity (cm) | Level (mm) | | | |
| Zone 2 | | | | | | | | | | | | | | | | | | | | | |
| | BS0210 | Moberly River | | | | | | | | | | | | | | | | | | | |
| | 20/10/2001 | 11:30:00 AM | 20 | SLN | D2 | Shoal | 20 | 30 | 50 | | | | 2 | 1.0 | 45 | 3112 | 0.70 | 0.05 | 230 | 3 | 2 |
| | 20/10/2001 | 11:30:00 AM | 35 | SLN | D2 | Shoal | 20 | 30 | 50 | | | | 2 | 1.0 | 45 | 3112 | 0.45 | 0.05 | 230 | 3 | 2 |
| Zone 3 | | | | | | | | | | | | | | | | | | | | | |
| | BS0301 | Halfway River | | | | | | | | | | | | | | | | | | | |
| | 22/08/2001 | 11:00:00 AM | 60 | SLN | D2 | Shoal | 20 | 80 | | | | | 2 | 12.5 | 35 | 1142 | 0.55 | 0.00 | 390 | 1 | 2 |
| | 17/10/2001 | 10:00:00 AM | 35 | SLN | D2 | Shoal | 20 | 80 | | | | | 1 | 2.0 | 95 | 2466 | 0.45 | 0.00 | 380 | 1 | 1 |
| | 17/10/2001 | 10:00:00 AM | 30 | SLN | D2 | Shoal | 20 | 80 | | | | | 1 | 2.0 | 95 | 2466 | 0.45 | 0.00 | 380 | 1 | 1 |
| | 17/10/2001 | 10:00:00 AM | 30 | SLN | D2 | Shoal | 20 | 80 | | | | | 1 | 2.0 | 95 | 2466 | 0.45 | 0.00 | 380 | 1 | 1 |
| | BS0302 | Peace River | | | | | | | | | | | | | | | | | | | |
| | 22/08/2001 | 11:30:00 AM | 50 | BAC | D3 | Snye | 100 | | | | | | 2 | 12.0 | 180 | 1146 | 0.52 | 0.00 | 180 | 2 | 2 |
| | 22/08/2001 | 11:30:00 AM | 80 | BAC | D3 | Snye | 100 | | | | | | 2 | 12.0 | 180 | 1146 | 0.35 | 0.00 | 180 | 2 | 1 |
| | 17/10/2001 | 10:30:00 AM | 35 | BAC | D3 | Snye | 100 | | | | 20 | | 1 | 6.0 | 95 | 2476 | 0.70 | 0.00 | 160 | 1 | 1 |
| | 17/10/2001 | 2:00:00 PM | 35 | BAC | D3 | Snye | 100 | | | | | | 1 | 6.0 | 95 | 2529 | 0.60 | 0.00 | 160 | 1 | 1 |
| | 17/10/2001 | 10:30:00 AM | 35 | BAC | D3 | Snye | 100 | | | | | | 1 | 6.0 | 95 | 2476 | 0.60 | 0.00 | 160 | 1 | 1 |
| | 17/10/2001 | 10:30:00 AM | 35 | BAC | D3 | Snye | 100 | | | | | | 1 | 6.0 | 95 | 2476 | 0.60 | 0.00 | 160 | 1 | 1 |
| | BS0304 | Peace River | | | | | | | | | | | | | | | | | | | |
| | 22/08/2001 | 1:30:00 PM | 80 | BAC | D3 | Snye | 50 | 50 | | | | | 1 | 12.0 | 180 | 1412 | 0.50 | 0.00 | 220 | 2 | 2 |
| | 22/08/2001 | 1:30:00 PM | 80 | BAC | D3 | Snye | 50 | 50 | | | | | 1 | 12.0 | 180 | 1412 | 0.88 | 0.00 | 220 | 2 | 1 |
| | 22/08/2001 | 1:30:00 PM | 80 | BAC | D3 | Snye | 50 | 50 | | | | 30 | 1 | 12.0 | 180 | 1412 | 0.73 | 0.00 | 220 | 2 | 2 |
| | 17/10/2001 | 2:00:00 PM | 40 | BAC | D3 | Snye | 50 | 50 | | | | 30 | 1 | 8.0 | 85 | 2529 | 0.50 | 0.00 | 170 | 3 | 1 |
| | 17/10/2001 | 2:00:00 PM | 40 | BAC | D3 | Snye | 50 | 50 | | | | | 1 | 8.0 | 85 | 2529 | 0.60 | 0.00 | 170 | 3 | 1 |

Appendix B Table B2. Beach seine sampling conditions during Phase I of the Peace River Fish Community Indexing Program, 2001.

| Area | Site Label and Waterbody Date and Time | | Effort (m) | Habitat Type | Bank Habitat | Instream Habitat | Substrate | | | | | Cover | | Bank Slope (1-4) | Temp. (C) | Water | | | Cond. (us/cm) | Light (1-4) | Efficiency (1-4) |
|------------|---|----|---------------|-----------------|-----------------|---------------------|-----------|-----|----|----|----|-------|-----|------------------------|--------------|-------|-----------------|---------------|------------------|----------------|---------------------|
| | | | | | | | Si | Sa | Gr | Co | Bo | Rock | LOD | | | Veg | Clarity (cm) | Level (mm) | | | |
| Zone 3 | | | | | | | | | | | | | | | | | | | | | |
| BS0304 | Peace River | | | | | | | | | | | | | | | | | | | | |
| 17/10/2001 | 2:00:00 PM | 30 | BAC | D3 | Snye | 50 | | 50 | | | | | 1 | 8.0 | 85 | 2529 | 0.65 | 0.00 | 170 | 3 | 1 |
| 17/10/2001 | 2:00:00 PM | 30 | BAC | D3 | Snye | 50 | | 50 | | | | | 1 | 8.0 | 85 | 2529 | 0.70 | 0.00 | 170 | 3 | 2 |
| 17/10/2001 | 2:00:00 PM | 35 | BAC | D3 | Snye | 50 | | 50 | | | | | 1 | 8.0 | 85 | 2529 | 0.50 | 0.00 | 170 | 3 | 1 |
| 17/10/2001 | 2:00:00 PM | 25 | BAC | D3 | Snye | 50 | | 50 | | | | | 1 | 8.0 | 85 | 2529 | 0.40 | 0.00 | 170 | 3 | 1 |
| BS0307 | Peace River | | | | | | | | | | | | | | | | | | | | |
| 22/08/2001 | 4:00:00 PM | 85 | SFN | A3 | Shoal | | | 100 | | | | | 1 | 12.0 | 160 | 1833 | 0.43 | 0.09 | 150 | 1 | 2 |
| BS0308 | Peace River | | | | | | | | | | | | | | | | | | | | |
| 22/08/2001 | 4:15:00 PM | 50 | SFN | D3 | Shoal | | | 100 | | | | | 2 | 12.0 | 160 | 1844 | 0.50 | 0.00 | 150 | 1 | 1 |
| BS0309 | Peace River | | | | | | | | | | | | | | | | | | | | |
| 22/08/2001 | 4:30:00 PM | 75 | SLN | D3 | Backwater | | | 100 | | | | | 1 | 12.0 | 160 | 1850 | 0.40 | 0.00 | 150 | 2 | 1 |
| BS0310 | Peace River | | | | | | | | | | | | | | | | | | | | |
| 22/08/2001 | 4:50:00 PM | 75 | CON | TCD2 | Confluence | | | 100 | | | | | 3 | 13.0 | 45 | 1855 | 0.42 | 0.00 | 210 | 3 | 1 |
| 17/10/2001 | 3:00:00 PM | 50 | CON | TCD2 | Confluence | | | 100 | | | | | 1 | 8.0 | 85 | 2499 | 0.50 | 0.21 | 170 | 3 | 3 |
| 17/10/2001 | 3:00:00 PM | 50 | CON | TCD2 | Confluence | | | 100 | | | | | 1 | 8.0 | 85 | 2499 | 0.40 | 0.10 | 170 | 3 | 3 |
| 17/10/2001 | 3:00:00 PM | 50 | CON | TCD2 | Confluence | | | 100 | | | | | 1 | 8.0 | 85 | 2499 | 0.62 | 0.10 | 170 | 3 | 1 |
| BS0311 | Peace River | | | | | | | | | | | | | | | | | | | | |
| 17/10/2001 | 1:00:00 PM | 25 | CON | TCD3 | Confluence | | | 100 | | | | | 2 | 8.0 | 90 | 2544 | 0.60 | 0.00 | 170 | 3 | 2 |
| 17/10/2001 | 1:00:00 PM | 25 | CON | TCD3 | Confluence | | | 100 | | | | | 2 | 8.0 | 90 | 2544 | 0.60 | 0.00 | 170 | 3 | 1 |
| 17/10/2001 | 1:00:00 PM | 40 | CON | TCD3 | Confluence | | | 100 | | | | | 2 | 8.0 | 90 | 2544 | 0.40 | 0.00 | 170 | 3 | 1 |
| Zone 4 | | | | | | | | | | | | | | | | | | | | | |
| BS0401 | Peace River | | | | | | | | | | | | | | | | | | | | |

Appendix B Table B2. Beach seine sampling conditions during Phase I of the Peace River Fish Community Indexing Program, 2001.

| Area | Site Label and Waterbody Date and Time | | Effort (m) | Habitat Type | Bank Habitat | Instream Habitat | Substrate | | | | | Cover | | Bank Slope (1-4) | Temp. (C) | Water | | | Cond. (us/cm) | Light (1-4) | Efficiency (1-4) | |
|--------------------|---|-------------|---------------|-----------------|-----------------|---------------------|-----------|----|----|----|----|-------|-----|------------------------|--------------|-------|-----------------|---------------|------------------|----------------|---------------------|--------------|
| | | | | | | | Si | Sa | Gr | Co | Bo | Rock | LOD | | | Veg | Clarity (cm) | Level (mm) | | | | Depth (m) |
| Zone 4 | | | | | | | | | | | | | | | | | | | | | | |
| BS0401 Peace River | | | | | | | | | | | | | | | | | | | | | | |
| | 19/08/2001 | 10:30:00 AM | 50 | CON | TCD2 | Confluence | | | | | | | | 2 | 14.0 | 170 | 706 | 0.57 | 0.00 | 140 | 2 | 1 |
| | 14/10/2001 | 4:30:00 PM | 25 | CON | TCD2 | Confluence | | | | | | | | 2 | 8.5 | 90 | 2336 | 0.70 | 0.10 | 170 | 3 | 2 |
| | 14/10/2001 | 4:30:00 PM | 25 | CON | TCD2 | Confluence | | | | | | | | 2 | 8.5 | 90 | 2336 | 0.59 | 0.15 | 170 | 3 | 2 |
| | 14/10/2001 | 4:30:00 PM | 25 | CON | TCD2 | Confluence | | | | | | | | 2 | 8.5 | 90 | 2336 | 0.52 | 0.11 | 170 | 3 | 1 |
| BS0402 Peace River | | | | | | | | | | | | | | | | | | | | | | |
| | 19/08/2001 | 12:00:00 PM | 30 | CON | TCD3 | Confluence | 80 | 20 | | | | | | 2 | 12.0 | 40 | 729 | 0.65 | 0.00 | 140 | 1 | 1 |
| | 19/08/2001 | 12:00:00 PM | 40 | CON | TCD3 | Confluence | 80 | 20 | | | | | | 2 | 12.0 | 40 | 729 | 0.55 | 0.00 | 140 | 1 | 1 |
| | 14/10/2001 | 3:00:00 PM | 40 | CON | TCD3 | Confluence | 80 | 20 | | | | | | 2 | 8.0 | 100 | 2338 | 0.89 | 0.00 | 170 | 3 | 1 |
| | 14/10/2001 | 3:00:00 PM | 25 | CON | TCD3 | Confluence | 80 | 20 | | | | | | 2 | 8.0 | 100 | 2338 | 0.67 | 0.00 | 170 | 2 | 1 |
| BS0404 Peace River | | | | | | | | | | | | | | | | | | | | | | |
| | 19/08/2001 | 1:00:00 PM | 55 | CON | TCD2 | Confluence | | | | | | | | 2 | 14.0 | 80 | 734 | 0.30 | 0.00 | 150 | 1 | 2 |
| | 14/10/2001 | 11:00:00 AM | 35 | CON | TCD2 | Confluence | 40 | 60 | | | | | | 2 | 7.0 | 105 | 2164 | 0.52 | 0.00 | 240 | 2 | 2 |
| | 14/10/2001 | 11:00:00 AM | 40 | CON | TCD2 | Confluence | 40 | 60 | | | | | | 2 | 7.0 | 105 | 2164 | 0.20 | 0.00 | 240 | 2 | 2 |
| | 14/10/2001 | 11:00:00 AM | 50 | CON | TCD2 | Confluence | 40 | 60 | | | | | | 2 | 7.0 | 105 | 2164 | 0.60 | 0.00 | 240 | 2 | 2 |
| BS0405 Peace River | | | | | | | | | | | | | | | | | | | | | | |
| | 19/08/2001 | 2:30:00 PM | 75 | SLN | A3 | Backwater | 50 | 50 | | | | | | 2 | 13.0 | 180 | 734 | 0.47 | 0.00 | 150 | 2 | 1 |
| | 14/10/2001 | 12:00:00 PM | 35 | SLN | A3 | Backwater | | | | | | | | 2 | 8.0 | 100 | 2249 | 0.18 | 0.05 | 170 | 3 | 1 |
| | 14/10/2001 | 12:00:00 PM | 35 | SLN | A3 | Backwater | | | | | | | | 2 | 8.0 | 100 | 2249 | 0.45 | 0.08 | 170 | 3 | 1 |
| | 14/10/2001 | 12:00:00 PM | 40 | SLN | A3 | Backwater | | | | | | | | 2 | 8.0 | 100 | 2249 | 0.82 | 0.05 | 170 | 3 | 2 |
| BS0406 Peace River | | | | | | | | | | | | | | | | | | | | | | |
| | 19/08/2001 | 3:00:00 PM | 65 | SLN | D3 | Backwater | 80 | 20 | | | | | | 1 | 13.0 | 180 | 733 | 0.67 | 0.00 | 150 | 1 | 2 |

Appendix B Table B2. Beach seine sampling conditions during Phase I of the Peace River Fish Community Indexing Program, 2001.

| Area | Site Label and Waterbody Date and Time | | Effort (m) | Habitat Type | Bank Habitat | Instream Habitat | Substrate | | | | | Cover | | | Bank Slope (1-4) | Temp. (C) | Water | | | | Cond. (us/cm) | Light (1-4) | Efficiency (1-4) |
|--------------------|---|------------|---------------|-----------------|-----------------|---------------------|-----------|----|----|-----|----|-------|-----|-----|------------------------|--------------|-----------------|---------------|--------------|---------------|------------------|----------------|---------------------|
| | | | | | | | Si | Sa | Gr | Co | Bo | Rock | LOD | Veg | | | Clarity (cm) | Level (mm) | Depth (m) | Vel. (m/s) | | | |
| Zone 4 | | | | | | | | | | | | | | | | | | | | | | | |
| BS0407 Peace River | | | | | | | | | | | | | | | | | | | | | | | |
| | 19/08/2001 | 3:30:00 PM | 60 | SLN | D3 | Backwater | 100 | | | | | | | | 2 | 16.0 | 180 | 731 | 0.43 | 0.00 | 150 | 1 | 2 |
| | 19/08/2001 | 3:30:00 PM | 30 | SLN | D3 | Backwater | 100 | | | | | | | | 2 | 16.0 | 180 | 731 | 0.47 | 0.00 | 150 | 1 | 1 |
| | 14/10/2001 | 1:00:00 PM | 35 | SLN | D3 | Backwater | 100 | | | | | | | | 2 | 8.0 | 90 | 2325 | 0.70 | 0.00 | 170 | 2 | 1 |
| | 14/10/2001 | 1:00:00 PM | 30 | SLN | D3 | Backwater | 100 | | | | | | | | 2 | 8.0 | 90 | 2325 | 0.76 | 0.00 | 170 | 2 | 1 |
| BS0409 Peace River | | | | | | | | | | | | | | | | | | | | | | | |
| | 19/08/2001 | 4:30:00 PM | 60 | SLN | A3 | Backwater | | | | 100 | | | | | 1 | 13.0 | 160 | 731 | 0.50 | 0.00 | 160 | 2 | 4 |
| BS0410 Peace River | | | | | | | | | | | | | | | | | | | | | | | |
| | 19/08/2001 | 5:30:00 PM | 30 | SLN | D2 | Backwater | | | | 100 | | | | | 2 | 13.0 | 160 | 732 | 0.50 | 0.15 | 160 | 1 | 2 |

Appendix B Table B3. Backpack electrofisher sampling conditions during Phase I of the Peace River Fish Community Indexing Program, 2001.

| Area | Site Label and Waterbody Date and Time | | Effort (m) | Habitat Type | Bank Habitat | Instream Habitat | Substrate | | | | | Cover | | Bank Slope (1-4) | Temp. (C) | Water | | | Cond. (us/cm) | Light (1-4) | Volt. | Eff. (1-4) |
|------------|---|-----|---------------|-----------------|-----------------|---------------------|-----------|----|-----|----|----|-------|-----|------------------------|--------------|-------|---------------|--------------|------------------|----------------|-------|---------------|
| | | | | | | | Si | Sa | Gr | Co | Bo | Rock | LOD | | | Veg | Level (mm) | Depth (m) | | | | |
| Zone 2 | | | | | | | | | | | | | | | | | | | | | | |
| EF0201 | Peace River | | | | | | | | | | | | | | | | | | | | | |
| 25/08/2001 | 10:45:00 AM | 80 | SFN | A3 | Shoal | | | | 100 | | | | 1 | 11.0 | 70 | 2186 | 0.23 | 0.15 | 170 | 3 | 400 | 1 |
| EF0202 | Peace River | | | | | | | | | | | | | | | | | | | | | |
| 25/08/2001 | 11:15:00 AM | 75 | SFN | A3 | Shoal | | | | 100 | | | | 1 | 12.0 | 70 | 2138 | 0.36 | 0.17 | 170 | 3 | 300 | 1 |
| EF0203 | Moberly River | | | | | | | | | | | | | | | | | | | | | |
| 25/08/2001 | 12:00:00 PM | 65 | STREAM | TCD2 | Riffle | | | | 100 | | | | 1 | 13.0 | 45 | 2067 | 0.17 | 0.24 | 200 | 1 | 300 | 2 |
| EF0204 | Peace River | | | | | | | | | | | | | | | | | | | | | |
| 25/08/2001 | 1:30:00 PM | 60 | SFN | A3 | Shoal | | | | 100 | | | | 1 | 12.0 | 75 | 1938 | 0.25 | 0.16 | 170 | 1 | 400 | 2 |
| Zone 3 | | | | | | | | | | | | | | | | | | | | | | |
| EF0301 | Peace River | | | | | | | | | | | | | | | | | | | | | |
| 22/08/2001 | 12:00:00 PM | 35 | SFN | A3 | Shoal | | | | 100 | | | | 1 | 12.0 | 180 | 1156 | 0.20 | 0.10 | 220 | 1 | 300 | 2 |
| EF0302 | Cache Creek | | | | | | | | | | | | | | | | | | | | | |
| 22/08/2001 | 2:15:00 PM | 140 | STREAM | | Riffle | 10 | 30 | 20 | 40 | 10 | 5 | | | 15.0 | 35 | | | | 1090 | | 200 | |
| 17/10/2001 | 11:45:00 AM | 290 | STREAM | | Riffle | 10 | 20 | 60 | 10 | 10 | 5 | | | 1.0 | 95 | | | | 1040 | | 200 | |
| Zone 4 | | | | | | | | | | | | | | | | | | | | | | |
| EF0401 | Maurice Creek | | | | | | | | | | | | | | | | | | | | | |
| 19/08/2001 | 9:50:00 AM | 151 | STREAM | | Riffle | 15 | 5 | 40 | 40 | 20 | | | | 13.0 | 80 | | | | 320 | | 300 | |
| 14/10/2001 | 3:30:00 PM | 235 | STREAM | | Riffle | 15 | 5 | 40 | | 20 | | | | 3.0 | 95 | | | | 340 | | 300 | |
| EF0402 | Lynx Creek | | | | | | | | | | | | | | | | | | | | | |
| 19/08/2001 | 11:15:00 AM | 135 | STREAM | | Riffle | 20 | 10 | 10 | 20 | 40 | 20 | | | 12.0 | 5 | | | | 1290 | | 200 | |

Appendix B Table B3. Backpack electrofisher sampling conditions during Phase I of the Peace River Fish Community Indexing Program, 2001.

| Area | Site Label and Waterbody Date and Time | | Effort (m) | Habitat Type | Bank Habitat | Instream Habitat | Substrate | | | | | Cover | | Bank Slope (1-4) | Temp. (C) | Water | | | Cond. (us/cm) | Light (1-4) | Volt. | Eff. (1-4) |
|------------|---|-----|---------------|-----------------|-----------------|---------------------|-----------|----|----|----|----|-------|-----|------------------------|--------------|-------|---------------|--------------|------------------|----------------|-------|---------------|
| | | | | | | | Si | Sa | Gr | Co | Bo | Rock | LOD | | | Veg | Level (mm) | Depth (m) | | | | |
| Zone 4 | | | | | | | | | | | | | | | | | | | | | | |
| EF0402 | Lynx Creek | | | | | | | | | | | | | | | | | | | | | |
| 14/10/2001 | 2:30:00 PM | 205 | STREAM | | Riffle | 20 | 10 | 10 | 20 | | 20 | | | 2.0 | 35 | | | | 640 | 300 | | |
| EF0403 | Farrell Creek | | | | | | | | | | | | | | | | | | | | | |
| 19/08/2001 | 1:15:00 PM | 140 | STREAM | | Riffle | 10 | 30 | 20 | 40 | | 15 | | | 16.5 | 35 | | | | 490 | 300 | | |
| 14/10/2001 | 11:00:00 AM | 198 | STREAM | | Riffle | 10 | 30 | 20 | 40 | | 15 | | | 2.0 | 100 | | | | 490 | 300 | | |

Appendix B Table B4. Gill net sampling conditions during Phase I of the Peace River Fish Community Indexing Program, 2001.

| Area | Site Label Date and Time | Effort (m) (s) | Habitat Type | Bank Habitat | Instream Habitat | Dominant Substrate | Water | | | | Cond. (us/cm) | Light (1-4) | Efficiency (1-4) | |
|--------|-----------------------------|-------------------|-----------------|-----------------|---------------------|-----------------------|--------------|-----------------|---------------|---------------|------------------|----------------|---------------------|--|
| | | | | | | | Temp. (C) | Clarity (cm) | Level (mm) | Vel. (1-4) | | | | |
| Zone 2 | | | | | | | | | | | | | | |
| | GN0201 | | | | | | | | | | | | | |
| | 20/10/2001 2:30:00 PM | 60 3600 | BAC | D3 | Snye | Silt | 6.0 | 140 | 3123 | 4 | 170 | 3 | 1 | |
| Zone 3 | | | | | | | | | | | | | | |
| | GN0301 | | | | | | | | | | | | | |
| | 16/10/2001 4:40:00 PM | 60 1800 | BAC | D3 | Snye | Silt | 8.0 | 100 | 2650 | 4 | 170 | 2 | 1 | |
| | GN0302 | | | | | | | | | | | | | |
| | 17/10/2001 2:15:00 PM | 60 3600 | BAC | D3 | Snye | Silt | 8.0 | 102 | 2522 | 4 | 170 | 2 | 1 | |

APPENDIX C
LIFE HISTORY DATA

Appendix C Table C1. Life history data for fish sampled during Phase I of the Peace River Fish Community Indexing Program, 2001

| Area and Waterbody | Site Label Sample Date and Kilometre | Common Name | Fork Length (mm) | Weight (gm) | Sexual Maturity | Age Structure | Age | Capt. Code | Tag Colour | Tag Number |
|--------------------|--|---------------------|---------------------|----------------|--------------------|------------------|-----|---------------|---------------|---------------|
| Zone 1 Peace River | | | | | | | | | | |
| | BS0101 25/08/2001 26.4 | Flathead chub | 72 | | | | | 0 | | |
| | | Flathead chub | 73 | | | | | 0 | | |
| | | Flathead chub | 66 | | | | | 0 | | |
| | | Flathead chub | 52 | | | | | 0 | | |
| | | Flathead chub | 72 | | | | | 0 | | |
| | | Flathead chub | 69 | | | | | 0 | | |
| | | Flathead chub | 73 | | | | | 0 | | |
| | | Lake chub | 80 | | | | | 0 | | |
| | | Sucker spp. | 32 | | | | | 0 | | |
| | | Sucker spp. | 28 | | | | | 0 | | |
| | | Lake chub | 25 | | | | | 4 | | |
| | | Lake chub | 28 | | | | | 4 | | |
| | | Lake chub | 22 | | | | | 4 | | |
| | | Lake chub | 23 | | | | | 4 | | |
| | | Lake chub | 26 | | | | | 4 | | |
| | | Lake chub | 22 | | | | | 4 | | |
| | | Lake chub | 29 | | | | | 4 | | |
| | | Lake chub | 24 | | | | | 4 | | |
| | | Lake chub | 27 | | | | | 4 | | |
| | | Lake chub | 23 | | | | | 4 | | |
| | | Redside shiner | 25 | | | | | 0 | | |
| | | Redside shiner | 24 | | | | | 4 | | |
| | BS0102 25/08/2001 26.4 | Lake chub | 77 | | | | | 0 | | |
| | | Longnose sucker | 88 | | | | | 0 | | |
| | | Northern pikeminnow | 82 | | | | | 0 | | |
| | | Northern pikeminnow | 87 | | | | | 0 | | |
| | | Northern pikeminnow | 82 | | | | | 0 | | |
| | | Northern pikeminnow | 72 | | | | | 0 | | |
| | | Redside shiner | 55 | | | | | 0 | | |
| | | Spottail shiner | 61 | | | | | 0 | | |
| | | Spottail shiner | 56 | | | | | 0 | | |
| | | Trout-perch | 87 | | | | | 0 | | |
| | | Lake chub | 23 | | | | | 4 | | |
| | | Northern pikeminnow | 43 | | | | | 4 | | |
| | BS0104 28/08/2001 12.4 | Flathead chub | 99 | | | | | 0 | | |
| | | Flathead chub | 86 | | | | | 0 | | |
| | | Flathead chub | 109 | | | | | 0 | | |
| | | Flathead chub | 80 | | | | | 0 | | |
| | | Flathead chub | 91 | | | | | 0 | | |
| | | Lake chub | 65 | | | | | 0 | | |
| | | Northern pike | 456 | 930 | | Fin Ray | 4 | 0 | | |
| | | Redside shiner | 68 | | | | | 0 | | |
| | | Redside shiner | 72 | | | | | 0 | | |
| | | Redside shiner | 78 | | | | | 0 | | |
| | | Redside shiner | 66 | | | | | 0 | | |
| | | Redside shiner | 67 | | | | | 0 | | |
| | | Redside shiner | 81 | | | | | 0 | | |

Appendix C Table C1. Life history data for fish sampled during Phase I of the Peace River Fish Community Indexing Program, 2001

| Area and Waterbody | Site Label Sample Date and Kilometre | Common Name | Fork Length (mm) | Weight (gm) | Sexual Maturity | Age Structure | Age | Capt. Code | Tag Colour | Tag Number |
|--------------------|--|---------------------|---------------------|----------------|--------------------|------------------|-----|---------------|---------------|---------------|
| Zone 1 Peace River | | | | | | | | | | |
| | BS0104 | 28/08/2001 | 12.4 | | | | | | | |
| | | Redside shiner | 63 | | | | | 0 | | |
| | | Redside shiner | 61 | | | | | 0 | | |
| | | Redside shiner | 70 | | | | | 0 | | |
| | | Redside shiner | 69 | | | | | 0 | | |
| | | Redside shiner | 72 | | | | | 0 | | |
| | | Redside shiner | 69 | | | | | 0 | | |
| | | Redside shiner | 57 | | | | | 0 | | |
| | | Redside shiner | 71 | | | | | 0 | | |
| | | Spottail shiner | 54 | | | | | 0 | | |
| | | Trout-perch | 51 | | | | | 0 | | |
| | BS0106 | 28/08/2001 | 18.3 | | | | | | | |
| | | Flathead chub | 83 | | | | | 0 | | |
| | | Northern pikeminnow | 97 | | | | | 0 | | |
| | | Redside shiner | 44 | | | | | 0 | | |
| | BS0108 | 28/08/2001 | 23.7 | | | | | | | |
| | | Longnose sucker | 87 | | | | | 0 | | |
| | | Sucker spp. | 31 | | | | | 0 | | |
| | BS0109 | 28/08/2001 | 23.7 | | | | | | | |
| | | Longnose sucker | 27 | | | | | 4 | | |
| | | Longnose sucker | 25 | | | | | 4 | | |
| | | Longnose sucker | 42 | | | | | 4 | | |
| | | Longnose sucker | 30 | | | | | 4 | | |
| | | Longnose sucker | 35 | | | | | 4 | | |
| | | Longnose sucker | 27 | | | | | 4 | | |
| | | Longnose sucker | 40 | | | | | 4 | | |
| | | Longnose sucker | 41 | | | | | 4 | | |
| | | Longnose sucker | 41 | | | | | 4 | | |
| | | Northern pikeminnow | 29 | | | | | 4 | | |
| | BS0110 | 28/08/2001 | 30.6 | | | | | | | |
| | | Sucker spp. | 48 | | | | | 0 | | |
| | ES0101 | 26/08/2001 | 31.2 | | | | | | | |
| | | Bull trout | 559 | 1600 | | Fin Ray | | 0 | Yellow | 772 |
| | | Largescale sucker | 521 | 1570 | | | | 0 | Yellow | 675 |
| | | Longnose sucker | 175 | 64 | | | | 0 | | |
| | | Longnose sucker | 397 | 806 | | | | 0 | Yellow | 770 |
| | | Longnose sucker | 227 | 162 | | | | 0 | | |
| | | Longnose sucker | 387 | 846 | | | | 0 | Yellow | 767 |
| | | Longnose sucker | 359 | 620 | | | | 0 | Yellow | 766 |
| | | Mountain whitefish | 182 | 64 | | | | 0 | | |
| | | Mountain whitefish | 428 | 1016 | | | | 0 | Yellow | 768 |
| | | Mountain whitefish | 282 | 236 | | | | 0 | Yellow | 771 |
| | | Mountain whitefish | 183 | 56 | | | | 0 | | |
| | | Mountain whitefish | 277 | 258 | | | | 0 | Yellow | 769 |
| | | Mountain whitefish | 182 | 54 | | | | 0 | | |
| | | Mountain whitefish | 210 | 82 | | | | 0 | | |
| | | Mountain whitefish | 121 | 20 | | | | 0 | | |
| | | Mountain whitefish | 193 | 66 | | | | 0 | | |
| | | Arctic grayling | 168 | | | | | 0 | | |
| | | Longnose sucker | 341 | 544 | | | | 0 | Yellow | 1774 |

Appendix C Table C1. Life history data for fish sampled during Phase I of the Peace River Fish Community Indexing Program, 2001

| Area and Waterbody | Site Label Sample Date and Kilometre | Common Name | Fork Length (mm) | Weight (gm) | Sexual Maturity | Age Structure | Age | Capt. Code | Tag Colour | Tag Number |
|--------------------|--|--------------------|---------------------|----------------|--------------------|------------------|-----|---------------|---------------|---------------|
| Zone 1 Peace River | | | | | | | | | | |
| | ES0101 26/08/2001 | 31.2 | | | | | | | | |
| | | Longnose sucker | 421 | 1152 | | | | 0 | Yellow | 1773 |
| | | Mountain whitefish | 151 | 38 | | | | 0 | | |
| | | Mountain whitefish | 144 | 34 | | | | 0 | | |
| | | Mountain whitefish | 167 | 48 | | | | 0 | | |
| | | Mountain whitefish | 383 | 642 | | | | 0 | Yellow | 1772 |
| | | Mountain whitefish | 199 | 74 | | | | 0 | | |
| | | Mountain whitefish | 92 | 8 | | | | 0 | | |
| | | Mountain whitefish | 413 | 792 | | | | 0 | Yellow | 1799 |
| | | Rainbow trout | 221 | 110 | | | | 0 | | |
| | ES0102 26/08/2001 | 29.2 | | | | | | | | |
| | | Goldeye | 369 | 500 | | Scale | 8 | 0 | Yellow | 779 |
| | | Largescale sucker | 443 | 1190 | | | | 0 | Yellow | 774 |
| | | Largescale sucker | 494 | 1310 | | | | 0 | Yellow | 775 |
| | | Longnose sucker | 437 | 1130 | | | | 0 | Yellow | 773 |
| | | Longnose sucker | 195 | 94 | | | | 0 | | |
| | | Mountain whitefish | 293 | 292 | | | | 0 | Yellow | 776 |
| | | Mountain whitefish | 283 | 256 | | | | 0 | Yellow | 778 |
| | | Mountain whitefish | 194 | 68 | | | | 0 | | |
| | | Mountain whitefish | 260 | 196 | | | | 0 | Yellow | 777 |
| | | Mountain whitefish | 135 | 20 | | | | 0 | | |
| | | Largescale sucker | 472 | 1410 | | | | 0 | Yellow | 1784 |
| | | Longnose sucker | 368 | 698 | | | | 0 | Yellow | 1776 |
| | | Longnose sucker | 473 | | | | | 0 | Yellow | 1777 |
| | | Longnose sucker | 283 | 270 | | | | 0 | Yellow | 1779 |
| | | Longnose sucker | 353 | 550 | | | | 0 | Yellow | 1778 |
| | | Longnose sucker | 444 | 982 | | | | 0 | Yellow | 1782 |
| | | Longnose sucker | 416 | 946 | | | | 0 | Yellow | 1783 |
| | | Longnose sucker | 491 | 1632 | | | | 0 | Yellow | 1781 |
| | | Longnose sucker | 367 | 1622 | | | | 0 | Yellow | 1775 |
| | | Longnose sucker | 447 | 1124 | | | | 0 | Yellow | 1800 |
| | | Mountain whitefish | 374 | 620 | | | | 0 | Yellow | 1780 |
| | | Mountain whitefish | 208 | 102 | | | | 0 | | |
| | | Mountain whitefish | 200 | | | | | 0 | | |
| | | Walleye | 437 | 878 | | | | 5 | Yellow | 1785 |
| | ES0103 26/08/2001 | 28.4 | | | | | | | | |
| | | Largescale sucker | 461 | 1292 | | | | 0 | | |
| | | Largescale sucker | 423 | 1012 | | | | 0 | Yellow | 780 |
| | | Largescale sucker | 354 | 558 | | | | 0 | Yellow | 781 |
| | | Largescale sucker | 338 | 434 | | | | 0 | | |
| | | Longnose sucker | 392 | 696 | | | | 0 | Yellow | 782 |
| | | Largescale sucker | 178 | 64 | | | | 0 | | |
| | | Longnose sucker | 385 | 818 | | | | 0 | Yellow | 1854 |
| | | Longnose sucker | 390 | 786 | | | | 0 | Yellow | 1794 |
| | | Longnose sucker | 395 | 902 | | | | 0 | Yellow | 1858 |
| | | Longnose sucker | 457 | 1120 | | | | 0 | Yellow | 1855 |
| | | Longnose sucker | 431 | 1056 | | | | 0 | Yellow | 1795 |
| | | Longnose sucker | 427 | 1020 | | | | 0 | Yellow | 1789 |
| | | Longnose sucker | 419 | 848 | | | | 0 | Yellow | 1798 |
| | | Longnose sucker | 447 | 1290 | | | | 0 | Yellow | 1851 |

Appendix C Table C1. Life history data for fish sampled during Phase I of the Peace River Fish Community Indexing Program, 2001

| Area and Waterbody | Site Label Sample Date and Kilometre | Common Name | Fork Length (mm) | Weight (gm) | Sexual Maturity | Age Structure | Age | Capt. Code | Tag Colour | Tag Number |
|--------------------|--------------------------------------|--------------------|------------------|-------------|-----------------|---------------|-----|------------|------------|------------|
| Zone 1 Peace River | | | | | | | | | | |
| | ES0103 26/08/2001 | 28.4 | | | | | | | | |
| | | Longnose sucker | 443 | 1214 | | | | 0 | Yellow | 1853 |
| | | Longnose sucker | 387 | 725 | | | | 0 | Yellow | 1857 |
| | | Longnose sucker | 495 | 1292 | | | | 0 | Yellow | 1796 |
| | | Mountain whitefish | 101 | 10 | | | | 0 | | |
| | | Mountain whitefish | 194 | 70 | | | | 0 | | |
| | | Mountain whitefish | 90 | | | | | 0 | | |
| | | Mountain whitefish | 132 | 24 | | | | 0 | | |
| | | Mountain whitefish | 103 | | | | | 0 | | |
| | | Mountain whitefish | 260 | 202 | | | | 0 | Yellow | 1790 |
| | | Mountain whitefish | 101 | 8 | | | | 0 | | |
| | | Trout-perch | 72 | | | | | 0 | | |
| | | Walleye | 573 | | | Fin Ray | 12 | 0 | Yellow | 1788 |
| | | Walleye | 325 | 372 | | Fin Ray | 4 | 0 | Yellow | 1793 |
| | | Walleye | 399 | 752 | | Fin Ray | 7 | 0 | Yellow | 1860 |
| | | Walleye | 355 | 466 | | Fin Ray | 4 | 0 | Yellow | 1797 |
| | | Walleye | 412 | 748 | | Fin Ray | 6 | 0 | Yellow | 1787 |
| | | Walleye | 435 | 952 | | Fin Ray | 6 | 0 | Yellow | 1792 |
| | | Walleye | 394 | 712 | | Fin Ray | 5 | 0 | Yellow | 1791 |
| | | Walleye | 344 | | | Fin Ray | 4 | 0 | Yellow | 1856 |
| | | Walleye | 356 | 502 | | Fin Ray | 5 | 0 | Yellow | 1859 |
| | | Walleye | 338 | 408 | | Fin Ray | 4 | 0 | Yellow | 1852 |
| | | Walleye | 321 | 318 | | Fin Ray | 3 | 0 | Yellow | 1786 |
| | ES0104 26/08/2001 | 26.4 | | | | | | | | |
| | | Burbot | 296 | 146 | | | | 0 | Yellow | 821 |
| | | Goldeye | 376 | 572 | | Scale | 9 | 0 | Yellow | 797 |
| | | Goldeye | 363 | 592 | | Scale | 8 | 0 | Yellow | 793 |
| | | Goldeye | 382 | 634 | | Scale | 10 | 0 | Yellow | 808 |
| | | Goldeye | 341 | 424 | | Scale | 7 | 0 | Yellow | 807 |
| | | Largescale sucker | 419 | 988 | | | | 0 | Yellow | 789 |
| | | Largescale sucker | 458 | 1220 | | | | 0 | Yellow | 806 |
| | | Largescale sucker | 487 | 1492 | | | | 0 | Yellow | 809 |
| | | Largescale sucker | 490 | 1448 | | | | 0 | Yellow | 815 |
| | | Largescale sucker | 438 | 1146 | | | | 0 | Yellow | 817 |
| | | Largescale sucker | 427 | 1132 | | | | 0 | Yellow | 803 |
| | | Largescale sucker | 499 | 1752 | | | | 0 | Yellow | 795 |
| | | Largescale sucker | 506 | 1686 | | | | 0 | Yellow | 783 |
| | | Largescale sucker | 553 | 2032 | | | | 0 | Yellow | 785 |
| | | Largescale sucker | 512 | 1638 | | | | 0 | Yellow | 784 |
| | | Largescale sucker | 456 | 1354 | | | | 0 | Yellow | 788 |
| | | Largescale sucker | 515 | 1610 | | | | 0 | Yellow | 791 |
| | | Largescale sucker | 540 | 2082 | | | | 0 | Yellow | 790 |
| | | Largescale sucker | 456 | 1216 | | | | 0 | Yellow | 805 |
| | | Largescale sucker | 481 | 1356 | | | | 0 | Yellow | 794 |
| | | Largescale sucker | 407 | 748 | | | | 0 | Yellow | 804 |
| | | Largescale sucker | 437 | 1180 | | | | 0 | Yellow | 796 |
| | | Largescale sucker | 494 | 1766 | | | | 0 | Yellow | 798 |
| | | Largescale sucker | 356 | 566 | | | | 0 | Yellow | 799 |
| | | Largescale sucker | 451 | 1072 | | | | 0 | Yellow | 800 |
| | | Largescale sucker | 439 | 1068 | | | | 0 | Yellow | 801 |

Appendix C Table C1. Life history data for fish sampled during Phase I of the Peace River Fish Community Indexing Program, 2001

| Area and Waterbody | Site Label Sample Date and Kilometre | Common Name | Fork Length (mm) | Weight (gm) | Sexual Maturity | Age Structure | Age | Capt. Code | Tag Colour | Tag Number |
|--------------------|--|---------------------|---------------------|----------------|--------------------|------------------|-----|---------------|---------------|---------------|
| Zone 1 Peace River | | | | | | | | | | |
| | ES0104 | 26/08/2001 | 26.4 | | | | | | | |
| | | Largescale sucker | 431 | 970 | | | | 0 | Yellow | 802 |
| | | Largescale sucker | 533 | 2024 | | | | 0 | Yellow | 786 |
| | | Largescale sucker | 382 | 728 | | | | 0 | Yellow | 787 |
| | | Longnose sucker | 275 | 220 | | | | 0 | Yellow | 819 |
| | | Northern pikeminnow | 481 | 1426 | | | | 0 | Yellow | 792 |
| | | Walleye | 456 | 982 | | Fin Ray | | 0 | Yellow | 818 |
| | | Walleye | 422 | 866 | | Fin Ray | | 0 | Yellow | 816 |
| | | Walleye | 410 | 690 | | Fin Ray | | 0 | Yellow | 810 |
| | | Walleye | 455 | 1078 | | Fin Ray | | 0 | Yellow | 811 |
| | | Walleye | 435 | 918 | | Fin Ray | | 0 | Yellow | 812 |
| | | Walleye | 565 | 1876 | | Fin Ray | | 0 | Yellow | 813 |
| | | Walleye | 401 | 796 | | Fin Ray | | 0 | Yellow | 814 |
| | | Walleye | 355 | 442 | | Fin Ray | | 0 | Yellow | 820 |
| | | Walleye | 271 | 142 | | Fin Ray | 3 | 0 | Yellow | 1861 |
| | ES0105 | 26/08/2001 | 26.4 | | | | | | | |
| | | Burbot | 431 | 450 | | | | 0 | | |
| | | Largescale sucker | 460 | 1322 | | | | 0 | Yellow | 832 |
| | | Largescale sucker | 360 | 604 | | | | 0 | Yellow | 834 |
| | | Largescale sucker | 598 | 2286 | | | | 0 | Yellow | 827 |
| | | Largescale sucker | 427 | 900 | | | | 0 | Yellow | 824 |
| | | Largescale sucker | 498 | 1276 | | | | 0 | Yellow | 823 |
| | | Largescale sucker | 415 | 930 | | | | 0 | Yellow | 833 |
| | | Largescale sucker | 488 | 1438 | | | | 0 | Yellow | 836 |
| | | Largescale sucker | 489 | 1218 | | | | 0 | Yellow | 837 |
| | | Largescale sucker | 485 | | | | | 0 | Yellow | 828 |
| | | Largescale sucker | 455 | 1340 | | | | 0 | Yellow | 826 |
| | | Largescale sucker | 445 | | | | | 0 | Yellow | 825 |
| | | Largescale sucker | 363 | 530 | | | | 0 | Yellow | 835 |
| | | Largescale sucker | 499 | 1622 | | | | 0 | Yellow | 830 |
| | | Largescale sucker | 455 | 1190 | | | | 0 | Yellow | 821 |
| | | Largescale sucker | 478 | 1522 | | | | 0 | | |
| | | Largescale sucker | 450 | 1130 | | | | 0 | Yellow | 831 |
| | | Largescale sucker | 509 | 1716 | | | | 0 | Yellow | 829 |
| | | Largescale sucker | 511 | 1620 | | | | 0 | Yellow | 822 |
| | | Longnose sucker | 290 | 256 | | | | 0 | Yellow | 838 |
| | | Walleye | 334 | 386 | | Fin Ray | | 0 | Yellow | 839 |
| | | Arctic grayling | 413 | 788 | | | | 0 | Yellow | 1862 |
| | | Longnose sucker | 390 | 784 | | | | 0 | Yellow | 1863 |
| | | Longnose sucker | 350 | 528 | | | | 0 | | |
| | | Longnose sucker | 360 | 478 | | | | 0 | Yellow | 1865 |
| | | Mountain whitefish | 206 | 48 | | | | 0 | | |
| | | Walleye | 385 | 558 | | Fin Ray | 5 | 0 | Yellow | 1866 |
| | | Walleye | 372 | 516 | | Fin Ray | 5 | 0 | Yellow | 1864 |
| | ES0106 | 26/08/2001 | 25.0 | | | | | | | |
| | | Burbot | 477 | 684 | | | | 0 | Yellow | 852 |
| | | Goldeye | 348 | 534 | | Scale | 7 | 0 | Yellow | 849 |
| | | Largescale sucker | 474 | 1316 | | | | 0 | Yellow | 850 |
| | | Largescale sucker | 507 | 1502 | | | | 0 | Yellow | 844 |
| | | Largescale sucker | 472 | 1322 | | | | 0 | Yellow | 842 |

Appendix C Table C1. Life history data for fish sampled during Phase I of the Peace River Fish Community Indexing Program, 2001

| Area and Waterbody | Site Label Sample Date and Kilometre | Common Name | Fork Length (mm) | Weight (gm) | Sexual Maturity | Age Structure | Age | Capt. Code | Tag Colour | Tag Number |
|--------------------|--|---------------------|---------------------|----------------|--------------------|------------------|-----|---------------|---------------|---------------|
| Zone 1 Peace River | | | | | | | | | | |
| | ES0106 26/08/2001 | 25.0 | | | | | | | | |
| | | Longnose sucker | 471 | 1224 | | | | 0 | Yellow | 840 |
| | | Longnose sucker | 383 | 746 | | | | 0 | Yellow | 843 |
| | | Mountain whitefish | 338 | 237 | | | | 0 | Yellow | 854 |
| | | Mountain whitefish | 388 | 656 | | | | 0 | Yellow | 847 |
| | | Mountain whitefish | 352 | 506 | | | | 0 | Yellow | 846 |
| | | Mountain whitefish | 293 | 290 | | | | 0 | Yellow | 848 |
| | | Mountain whitefish | 250 | 176 | | | | 0 | Yellow | 855 |
| | | Mountain whitefish | 374 | 640 | | | | 0 | Yellow | 845 |
| | | Northern pikeminnow | 524 | 2090 | | | | 0 | Yellow | 841 |
| | | Walleye | 418 | 856 | | Fin Ray | | 0 | Yellow | 851 |
| | | Longnose sucker | 261 | 238 | | | | 0 | Yellow | 1883 |
| | | Longnose sucker | 396 | 840 | | | | 0 | Yellow | 1878 |
| | | Longnose sucker | 386 | 768 | | | | 0 | Yellow | 1867 |
| | | Longnose sucker | 371 | 664 | | | | 0 | Yellow | 1879 |
| | | Mountain whitefish | 350 | 490 | | | | 0 | Yellow | 1869 |
| | | Mountain whitefish | 301 | 284 | | | | 0 | Yellow | 1870 |
| | | Mountain whitefish | 154 | 42 | | | | 0 | | |
| | | Northern pike | 197 | 88 | | | | 0 | | |
| | ES0107 26/08/2001 | 25.0 | | | | | | | | |
| | | Bull trout | 357 | 452 | | Fin Ray | | 0 | Yellow | 860 |
| | | Bull trout | 496 | 1216 | | Fin Ray | | 0 | Yellow | 861 |
| | | Lake chub | 85 | | | | | 0 | | |
| | | Largescale sucker | 533 | 1876 | | | | 0 | Yellow | 856 |
| | | Longnose sucker | 197 | 90 | | | | 0 | | |
| | | Longnose sucker | 416 | 854 | | | | 0 | Yellow | 857 |
| | | Longnose sucker | 195 | 86 | | | | 0 | | |
| | | Longnose sucker | 482 | 944 | | | | 0 | Yellow | 858 |
| | | Longnose sucker | 382 | 692 | | | | 0 | Yellow | 853 |
| | | Longnose sucker | 181 | 68 | | | | 0 | | |
| | | Mountain whitefish | 277 | 230 | | | | 0 | Yellow | 859 |
| | | Mountain whitefish | | | | | | 0 | | |
| | | Mountain whitefish | 182 | 28 | | | | 0 | | |
| | | Mountain whitefish | 186 | 64 | | | | 0 | | |
| | | Rainbow trout | 189 | 88 | | | | 0 | | |
| | | Redside shiner | 104 | | | | | 0 | | |
| | | Largescale sucker | 484 | 1586 | | | | 0 | Yellow | 1868 |
| | | Largescale sucker | 427 | 1062 | | | | 0 | | |
| | | Largescale sucker | 482 | 1516 | | | | 0 | | |
| | | Longnose sucker | 401 | 760 | | | | 0 | Yellow | 1881 |
| | | Longnose sucker | 402 | 888 | | | | 0 | Yellow | 1876 |
| | | Longnose sucker | 417 | 976 | | | | 0 | | |
| | | Longnose sucker | 422 | 1082 | | | | 0 | | |
| | | Mountain whitefish | 260 | 190 | | 8 | | 0 | Yellow | 1871 |
| | | Mountain whitefish | 369 | 564 | | 8 | | 0 | Yellow | 1891 |
| | | Mountain whitefish | 354 | 452 | | 8 | | 0 | Yellow | 1889 |
| | | Mountain whitefish | 360 | 484 | | 8 | | 0 | Yellow | 1890 |
| | | Mountain whitefish | 355 | 474 | | 8 | | 0 | Yellow | 1875 |
| | | Mountain whitefish | 266 | 174 | | | | 0 | Yellow | 1892 |
| | | Mountain whitefish | 367 | 330 | | 9 | | 0 | Yellow | 1882 |

Appendix C Table C1. Life history data for fish sampled during Phase I of the Peace River Fish Community Indexing Program, 2001

| Area and Waterbody | Site Label Sample Date and Kilometre | Common Name | Fork Length (mm) | Weight (gm) | Sexual Maturity | Age Structure | Age | Capt. Code | Tag Colour | Tag Number |
|--------------------|--|--------------------|---------------------|----------------|--------------------|------------------|-----|---------------|---------------|---------------|
| Zone 1 Peace River | | | | | | | | | | |
| | ES0107 26/08/2001 | 25.0 | | | | | | | | |
| | | Mountain whitefish | 350 | 420 | 18 | | | 0 | Yellow | 1874 |
| | | Mountain whitefish | 340 | | 8 | | | 0 | Yellow | 1877 |
| | | Mountain whitefish | 292 | 252 | 8 | | | 0 | Yellow | 1880 |
| | | Mountain whitefish | 360 | 520 | 8 | | | 0 | Yellow | 1873 |
| | | Mountain whitefish | 296 | 292 | 8 | | | 0 | Yellow | 1893 |
| | | Mountain whitefish | 326 | 390 | 8 | | | 0 | Yellow | 1885 |
| | | Mountain whitefish | 271 | 204 | 8 | | | 0 | Yellow | 1884 |
| | | Mountain whitefish | 382 | 646 | 18 | | | 0 | Yellow | 1887 |
| | | Mountain whitefish | 384 | 658 | 18 | | | 0 | Yellow | 1872 |
| | | Mountain whitefish | 324 | 382 | 8 | | | 0 | Yellow | 1888 |
| | | Mountain whitefish | 368 | 558 | 8 | | | 0 | | |
| | | Mountain whitefish | 350 | 506 | 18 | | | 0 | Yellow | 1886 |
| | ES0108 26/08/2001 | 22.0 | | | | | | | | |
| | | Longnose sucker | 424 | 916 | | | | 0 | Yellow | 862 |
| | | Longnose sucker | 200 | 92 | | | | 0 | | |
| | | Mountain whitefish | 388 | 704 | | | | 0 | Yellow | 864 |
| | | Mountain whitefish | 210 | 90 | | | | 0 | | |
| | | Mountain whitefish | 451 | 1242 | | | | 0 | Yellow | 863 |
| | | Mountain whitefish | 185 | 62 | | | | 0 | | |
| | | Mountain whitefish | 195 | 74 | | | | 0 | | |
| | | Bull trout | 297 | 246 | | Fin Ray | 3 | 0 | Yellow | 1900 |
| | | Bull trout | 468 | 948 | | Fin Ray | 6 | 0 | Yellow | 1901 |
| | | Longnose sucker | 398 | 752 | | | | 0 | Yellow | 1898 |
| | | Longnose sucker | 247 | 190 | | | | 0 | | |
| | | Longnose sucker | 375 | 678 | | | | 0 | Yellow | 1895 |
| | | Longnose sucker | 458 | 1208 | | | | 0 | Yellow | 1894 |
| | | Mountain whitefish | 438 | 946 | | | | 0 | Yellow | 1896 |
| | | Mountain whitefish | 208 | 92 | | | | 0 | | |
| | | Mountain whitefish | 439 | 938 | | | | 0 | Yellow | 1899 |
| | | Walleye | 314 | 386 | | Fin Ray | 4 | 0 | Yellow | 1897 |
| | ES0109 26/08/2001 | 19.8 | | | | | | | | |
| | | Arctic grayling | 150 | 44 | | | | 0 | | |
| | | Arctic grayling | 157 | 46 | | | | 0 | | |
| | | Largescale sucker | 476 | 1444 | | | | 0 | Yellow | 867 |
| | | Largescale sucker | 421 | 1050 | | | | 0 | Yellow | 866 |
| | | Longnose sucker | 265 | 258 | | | | 0 | Yellow | 869 |
| | | Longnose sucker | 382 | 712 | | | | 0 | Yellow | 870 |
| | | Longnose sucker | 411 | 940 | | | | 0 | Yellow | 868 |
| | | Longnose sucker | 200 | 90 | | | | 0 | | |
| | | Longnose sucker | 101 | 12 | | | | 0 | | |
| | | Longnose sucker | 95 | 12 | | | | 0 | | |
| | | Longnose sucker | 161 | 54 | | | | 0 | | |
| | | Longnose sucker | 356 | 628 | | | | 0 | Yellow | 871 |
| | | Mountain whitefish | 275 | 244 | | | | 0 | Yellow | 873 |
| | | Mountain whitefish | 191 | 62 | | | | 0 | | |
| | | Mountain whitefish | 187 | 68 | | | | 0 | | |
| | | Mountain whitefish | 120 | 16 | | | | 0 | | |
| | | Mountain whitefish | 182 | 52 | | | | 0 | | |
| | | Mountain whitefish | 384 | 698 | | | | 0 | Yellow | 872 |

Appendix C Table C1. Life history data for fish sampled during Phase I of the Peace River Fish Community Indexing Program, 2001

| Area and Waterbody | Site Label Sample Date and Kilometre | Common Name | Fork Length (mm) | Weight (gm) | Sexual Maturity | Age Structure | Age | Capt. Code | Tag Colour | Tag Number |
|--------------------|--|--------------------|---------------------|----------------|--------------------|------------------|-----|---------------|---------------|---------------|
| Zone 1 Peace River | | | | | | | | | | |
| | ES0109 26/08/2001 | 19.8 | | | | | | | | |
| | | Walleye | 457 | 1240 | | Fin Ray | | 0 | Yellow | 865 |
| | | Arctic grayling | 176 | 54 | | | | 0 | | |
| | | Arctic grayling | 196 | 78 | | | | 0 | | |
| | | Arctic grayling | 135 | 28 | | | | 0 | | |
| | | Bull trout | 415 | 672 | | Fin Ray | 5 | 0 | Yellow | 1919 |
| | | Bull trout | 330 | 314 | | Fin Ray | 3 | 0 | Yellow | 1918 |
| | | Bull trout | 457 | | | | | 2 | Yellow | 1901 |
| | | Largescale sucker | 396 | 850 | | | | 0 | Yellow | 1922 |
| | | Largescale sucker | 373 | 712 | | | | 0 | | |
| | | Largescale sucker | 468 | | | | | 0 | Yellow | 1907 |
| | | Longnose sucker | 423 | 914 | | | | 0 | Yellow | 1917 |
| | | Longnose sucker | 411 | 910 | | | | 0 | | |
| | | Longnose sucker | 401 | 854 | | | | 0 | Yellow | 1920 |
| | | Longnose sucker | 448 | | | | | 0 | Yellow | 1904 |
| | | Mountain whitefish | 195 | 82 | | | | 0 | | |
| | | Mountain whitefish | 382 | 602 | 8 | | | 0 | Yellow | 1915 |
| | | Mountain whitefish | 304 | 342 | | | | 0 | | |
| | | Mountain whitefish | 356 | 504 | | | | 0 | Yellow | 1906 |
| | | Mountain whitefish | 197 | 84 | | | | 0 | | |
| | | Mountain whitefish | 361 | 542 | 8 | | | 0 | Yellow | 1911 |
| | | Mountain whitefish | 366 | 520 | 8 | | | 0 | Yellow | 1908 |
| | | Mountain whitefish | 380 | 590 | 8 | | | 0 | Yellow | 1913 |
| | | Mountain whitefish | 285 | 236 | 8 | | | 0 | Yellow | 1910 |
| | | Mountain whitefish | 391 | 666 | 8 | | | 0 | Yellow | 1909 |
| | | Mountain whitefish | 343 | 376 | 8 | | | 0 | Yellow | 1921 |
| | | Mountain whitefish | 281 | 250 | | | | 0 | Yellow | 1914 |
| | | Mountain whitefish | 361 | 576 | 8 | | | 0 | Yellow | 1903 |
| | | Mountain whitefish | 100 | 8 | | | | 0 | | |
| | | Mountain whitefish | 444 | 1102 | 18 | | | 0 | Yellow | 1916 |
| | | Mountain whitefish | 331 | 378 | 9 | | | 0 | Yellow | 1912 |
| | | Mountain whitefish | 146 | | | | | 0 | | |
| | | Mountain whitefish | 283 | 228 | | | | 0 | Yellow | 1923 |
| | | Mountain whitefish | 185 | 70 | | | | 0 | | |
| | | Mountain whitefish | 373 | 536 | 18 | | | 0 | Yellow | 1905 |
| | | Mountain whitefish | 281 | | | | | 0 | | |
| | | Mountain whitefish | 346 | 360 | 8 | | | 0 | Yellow | 1902 |
| | ES0110 26/08/2001 | 17.0 | | | | | | | | |
| | | Arctic grayling | 162 | 46 | | | | 0 | | |
| | | Burbot | 385 | 422 | | | | 0 | Yellow | 891 |
| | | Burbot | 355 | 320 | | | | 0 | Yellow | 886 |
| | | Longnose sucker | 382 | 780 | | | | 0 | Yellow | 887 |
| | | Longnose sucker | 287 | 272 | | | | 0 | Yellow | 888 |
| | | Longnose sucker | 373 | 606 | | | | 0 | Yellow | 892 |
| | | Longnose sucker | 352 | 522 | | | | 0 | Yellow | 878 |
| | | Longnose sucker | 254 | 200 | | | | 0 | Yellow | 890 |
| | | Longnose sucker | 237 | 168 | | | | 0 | | |
| | | Longnose sucker | 147 | | | | | 0 | | |
| | | Longnose sucker | 182 | 72 | | | | 0 | | |
| | | Longnose sucker | 327 | 428 | | | | 0 | Yellow | 884 |

Appendix C Table C1. Life history data for fish sampled during Phase I of the Peace River Fish Community Indexing Program, 2001

| Area and Waterbody | Site Label Sample Date and Kilometre | Common Name | Fork Length (mm) | Weight (gm) | Sexual Maturity | Age Structure | Age | Capt. Code | Tag Colour | Tag Number |
|--------------------|--------------------------------------|---------------------|------------------|-------------|-----------------|---------------|-----|------------|------------|------------|
| Zone 1 Peace River | ES0110 26/08/2001 17.0 | | | | | | | | | |
| | | Mountain whitefish | 423 | 942 | | | | 0 | Yellow | 876 |
| | | Mountain whitefish | 109 | 12 | | | | 0 | | |
| | | Mountain whitefish | 359 | 584 | | | | 0 | Yellow | 882 |
| | | Mountain whitefish | 409 | 984 | | | | 0 | Yellow | 880 |
| | | Mountain whitefish | 289 | 274 | | | | 0 | Yellow | 889 |
| | | Mountain whitefish | 234 | 170 | | | | 0 | | |
| | | Mountain whitefish | 277 | 228 | | | | 0 | Yellow | 875 |
| | | Mountain whitefish | 270 | 224 | | | | 0 | Yellow | 893 |
| | | Mountain whitefish | 266 | 192 | | | | 0 | Yellow | 896 |
| | | Mountain whitefish | 253 | 268 | | | | 0 | Yellow | 895 |
| | | Mountain whitefish | 362 | 644 | | | | 0 | Yellow | 877 |
| | | Mountain whitefish | 286 | 310 | | | | 0 | Yellow | 894 |
| | | Mountain whitefish | 344 | 464 | | | | 0 | Yellow | 879 |
| | | Mountain whitefish | 447 | 1064 | | | | 0 | Yellow | 874 |
| | | Mountain whitefish | 83 | 8 | | | | 0 | | |
| | | Mountain whitefish | 387 | 688 | | | | 0 | Yellow | 885 |
| | | Mountain whitefish | 272 | 260 | | | | 0 | Yellow | 881 |
| | | Northern pikeminnow | 330 | 436 | | | | 0 | Yellow | 883 |
| | | Arctic grayling | 197 | 94 | | | | 0 | | |
| | | Bull trout | 330 | 334 | | | | 0 | Yellow | 1933 |
| | | Longnose dace | 65 | | | | | 0 | | |
| | | Longnose sucker | 401 | 890 | | | | 0 | Yellow | 1928 |
| | | Longnose sucker | 286 | 310 | | | | 0 | Yellow | 1926 |
| | | Longnose sucker | 416 | 886 | | | | 0 | Yellow | 1932 |
| | | Longnose sucker | 420 | 946 | | | | 0 | Yellow | 1930 |
| | | Longnose sucker | 364 | 676 | | | | 0 | Yellow | 1931 |
| | | Longnose sucker | 370 | | | | | 0 | Yellow | 1924 |
| | | Mountain whitefish | 201 | 78 | | | | 0 | | |
| | | Mountain whitefish | 211 | 96 | | | | 0 | | |
| | | Mountain whitefish | 204 | 80 | | | | 0 | | |
| | | Mountain whitefish | 197 | 80 | | | | 0 | | |
| | | Mountain whitefish | 144 | 48 | | | | 0 | | |
| | | Mountain whitefish | 157 | 34 | | | | 0 | | |
| | | Mountain whitefish | 170 | 46 | | | | 0 | | |
| | | Mountain whitefish | 385 | 568 | | | | 0 | Yellow | 1925 |
| | | Mountain whitefish | 213 | 100 | | | | 0 | | |
| | | Mountain whitefish | 140 | 30 | | | | 0 | | |
| | | Mountain whitefish | 210 | 90 | | | | 0 | | |
| | | Mountain whitefish | 306 | 302 | | | | 0 | Yellow | 1929 |
| | | Mountain whitefish | 201 | 80 | | | | 0 | | |
| | | Mountain whitefish | 206 | 86 | | | | 0 | | |
| | | Mountain whitefish | 181 | 60 | | | | 0 | | |
| | | Mountain whitefish | 144 | 36 | | | | 0 | | |
| | | Mountain whitefish | 146 | 32 | | | | 0 | | |
| | | Mountain whitefish | 149 | 30 | | | | 0 | | |
| | | Mountain whitefish | 157 | 36 | | | | 0 | | |
| | | Mountain whitefish | 209 | 88 | | | | 0 | | |
| | | Mountain whitefish | 100 | 8 | | | | 0 | | |
| | | Mountain whitefish | 291 | 264 | | | | 0 | Yellow | 1927 |

Appendix C Table C1. Life history data for fish sampled during Phase I of the Peace River Fish Community Indexing Program, 2001

| Area and Waterbody | Site Label Sample Date and Kilometre | Common Name | Fork Length (mm) | Weight (gm) | Sexual Maturity | Age Structure | Age | Capt. Code | Tag Colour | Tag Number |
|--------------------|--|---------------------|---------------------|----------------|--------------------|------------------|-----|---------------|---------------|---------------|
| Zone 1 Peace River | | | | | | | | | | |
| | ES0111 27/08/2001 | 15.1 | | | | | | | | |
| | | Goldeye | 378 | 664 | | Scale | 9 | 0 | Yellow | 897 |
| | | Longnose sucker | 355 | 598 | | | | 0 | Yellow | 898 |
| | | Longnose sucker | 370 | 666 | | | | 0 | Yellow | 899 |
| | | Mountain whitefish | 373 | 624 | | | | 0 | Yellow | 900 |
| | | Mountain whitefish | 184 | 62 | | | | 0 | | |
| | | Mountain whitefish | 188 | 66 | | | | 0 | | |
| | | Mountain whitefish | 199 | 70 | | | | 0 | | |
| | | Mountain whitefish | 187 | 68 | | | | 0 | | |
| | | Mountain whitefish | 189 | 62 | | | | 0 | | |
| | | Mountain whitefish | 183 | 56 | | | | 0 | | |
| | | Mountain whitefish | 195 | 76 | | | | 0 | | |
| | | Longnose sucker | 502 | 1400 | | | | 0 | Yellow | 1937 |
| | | Rainbow trout | 171 | 52 | | | | 0 | | |
| | ES0112 27/08/2001 | 12.5 | | | | | | | | |
| | | Bull trout | 420 | 710 | | | | 0 | Yellow | 908 |
| | | Largescale sucker | 440 | 976 | | | | 0 | Yellow | 903 |
| | | Largescale sucker | 440 | 976 | | | | 0 | Yellow | 903 |
| | | Largescale sucker | 445 | 1066 | | | | 0 | Yellow | 904 |
| | | Largescale sucker | 405 | 814 | | | | 0 | Yellow | 902 |
| | | Largescale sucker | 395 | 878 | | | | 0 | Yellow | 901 |
| | | Largescale sucker | 445 | 1066 | | | | 0 | Yellow | 904 |
| | | Largescale sucker | 367 | 570 | | | | 0 | Yellow | 906 |
| | | Largescale sucker | 367 | 570 | | | | 0 | Yellow | 906 |
| | | Largescale sucker | 405 | 814 | | | | 0 | Yellow | 902 |
| | | Longnose sucker | 408 | 900 | | | | 0 | Yellow | 905 |
| | | Mountain whitefish | 280 | 228 | | | | 0 | Yellow | 907 |
| | | Mountain whitefish | 107 | 20 | | | | 0 | | |
| | | Northern pikeminnow | 333 | | | | | 0 | Yellow | 883 |
| | | Bull trout | 425 | 766 | | | | 0 | Yellow | 1946 |
| | | Longnose sucker | 346 | 544 | | | | 0 | Yellow | 1944 |
| | | Longnose sucker | 389 | 926 | | | | 0 | Yellow | 1941 |
| | | Mountain whitefish | 290 | 272 | 8 | | | 0 | Yellow | 1936 |
| | | Mountain whitefish | 281 | 252 | | | | 0 | Yellow | 1945 |
| | | Mountain whitefish | 338 | 408 | 8 | | | 0 | Yellow | 1934 |
| | | Mountain whitefish | 370 | 556 | 8 | | | 0 | Yellow | 1938 |
| | | Mountain whitefish | 153 | 34 | | | | 0 | | |
| | | Mountain whitefish | 368 | 474 | 8 | | | 0 | Yellow | 1939 |
| | | Mountain whitefish | 267 | 198 | 8 | | | 0 | Yellow | 1942 |
| | | Mountain whitefish | 404 | 650 | | | | 0 | Yellow | 1943 |
| | | Mountain whitefish | 389 | 632 | 18 | | | 0 | Yellow | 1935 |
| | | Mountain whitefish | 433 | 470 | 9 | | | 0 | Yellow | 1940 |
| | ES0113 27/08/2001 | 11.0 | | | | | | | | |
| | | Burbot | 303 | 146 | | | | 0 | | |
| | | Longnose sucker | 384 | 690 | | | | 0 | Yellow | 915 |
| | | Mountain whitefish | 294 | 248 | | | | 0 | Yellow | 916 |
| | | Mountain whitefish | 398 | 742 | | | | 0 | Yellow | 911 |
| | | Mountain whitefish | 384 | 788 | | | | 0 | Yellow | 914 |
| | | Mountain whitefish | 363 | 558 | | | | 0 | Yellow | 917 |
| | | Mountain whitefish | 290 | 266 | | | | 0 | Yellow | 918 |

Appendix C Table C1. Life history data for fish sampled during Phase I of the Peace River Fish Community Indexing Program, 2001

| Area and Waterbody | Site Label Sample Date and Kilometre | Common Name | Fork Length (mm) | Weight (gm) | Sexual Maturity | Age Structure | Age | Capt. Code | Tag Colour | Tag Number |
|--------------------|--------------------------------------|--------------------|------------------|-------------|-----------------|---------------|-----|------------|------------|------------|
| Zone 1 Peace River | | | | | | | | | | |
| | ES0113 27/08/2001 11.0 | Mountain whitefish | 288 | 272 | | | | 0 | Yellow | 919 |
| | | Mountain whitefish | 373 | 610 | | | | 0 | Yellow | 909 |
| | | Northern pike | 424 | 402 | | Fin Ray | 4 | 0 | Yellow | 913 |
| | | Walleye | 359 | 500 | | Fin Ray | | 0 | Yellow | 920 |
| | | Walleye | 381 | 634 | | Fin Ray | | 0 | Yellow | 910 |
| | | Walleye | 425 | 840 | | Fin Ray | | 0 | Yellow | 912 |
| | | Arctic grayling | 117 | 6 | | | | 0 | | |
| | | Largescale sucker | 204 | 90 | | | | 0 | | |
| | | Longnose sucker | 256 | 190 | | | | 0 | Yellow | 1950 |
| | | Mountain whitefish | 398 | | | | 19 | 0 | | |
| | | Mountain whitefish | 197 | 74 | | | | 0 | | |
| | | Mountain whitefish | 223 | 118 | | | | 0 | | |
| | | Mountain whitefish | 213 | 84 | | | | 0 | | |
| | | Mountain whitefish | 193 | 72 | | | | 0 | | |
| | | Mountain whitefish | 261 | 178 | | | | 0 | Yellow | 1953 |
| | | Mountain whitefish | 274 | 208 | | | | 0 | Yellow | 1954 |
| | | Mountain whitefish | 192 | 58 | | | | 0 | | |
| | | Mountain whitefish | 370 | 498 | | | | 0 | Yellow | 1952 |
| | | Mountain whitefish | 154 | 22 | | | | 0 | | |
| | | Mountain whitefish | 186 | 64 | | | | 0 | | |
| | | Mountain whitefish | 448 | 896 | | | | 0 | Yellow | 1947 |
| | | Mountain whitefish | 421 | 840 | | | 19 | 0 | Yellow | 1948 |
| | | Mountain whitefish | 502 | 1376 | | | 19 | 0 | Yellow | 1949 |
| | | Mountain whitefish | 481 | 1230 | | | | 0 | Yellow | 1951 |
| | | Mountain whitefish | 272 | 214 | | | | 0 | Yellow | 1955 |
| | | Rainbow trout | 193 | 80 | | | | 0 | | |
| | | Rainbow trout | 174 | 58 | | | | 0 | | |
| | | Trout-perch | 79 | | | | | 0 | | |
| | ES0114 27/08/2001 8.0 | Goldeye | 338 | 426 | | Scale | 8 | 0 | Yellow | 921 |
| | | Goldeye | 342 | 452 | | Scale | 8 | 0 | Yellow | 922 |
| | | Largescale sucker | 337 | 500 | | | | 0 | Yellow | 923 |
| | | Longnose sucker | 151 | 38 | | | | 0 | | |
| | | Longnose sucker | 205 | 94 | | | | 0 | | |
| | | Longnose sucker | 184 | 78 | | | | 0 | | |
| | | Mountain whitefish | 253 | 134 | | | | 0 | Yellow | 929 |
| | | Mountain whitefish | 183 | 62 | | | | 0 | | |
| | | Mountain whitefish | 110 | 14 | | | | 0 | | |
| | | Mountain whitefish | 112 | 14 | | | | 0 | | |
| | | Mountain whitefish | 275 | 228 | | | | 0 | Yellow | 927 |
| | | Mountain whitefish | 388 | 780 | | | | 0 | Yellow | 926 |
| | | Mountain whitefish | 283 | 326 | | | | 0 | Yellow | 925 |
| | | Mountain whitefish | 179 | 56 | | | | 0 | | |
| | | Mountain whitefish | 282 | 306 | | | | 0 | Yellow | 924 |
| | | Mountain whitefish | 293 | 260 | | | | 0 | Yellow | 928 |
| | | Redside shiner | 84 | | | | | 0 | | |
| | | Redside shiner | 96 | 10 | | | | 0 | | |
| | | Bull trout | 430 | 718 | | | | 0 | Yellow | 1961 |
| | | Longnose sucker | 456 | 1132 | | | | 0 | Yellow | 1956 |

Appendix C Table C1. Life history data for fish sampled during Phase I of the Peace River Fish Community Indexing Program, 2001

| Area and Waterbody | Site Label Sample Date and Kilometre | Common Name | Fork Length (mm) | Weight (gm) | Sexual Maturity | Age Structure | Age | Capt. Code | Tag Colour | Tag Number |
|--------------------|--|---------------------|---------------------|----------------|--------------------|------------------|-----|---------------|---------------|---------------|
| Zone 1 Peace River | | | | | | | | | | |
| | ES0114 27/08/2001 | 8.0 | | | | | | | | |
| | | Mountain whitefish | 208 | 104 | | | | 0 | | |
| | | Mountain whitefish | 182 | 64 | | | | 0 | | |
| | | Mountain whitefish | 290 | 256 | 8 | | | 0 | Yellow | 1957 |
| | | Mountain whitefish | 289 | 244 | | | | 0 | Yellow | 1958 |
| | | Mountain whitefish | 398 | 536 | | | | 0 | Yellow | 1959 |
| | | Mountain whitefish | 223 | 142 | | | | 0 | | |
| | | Mountain whitefish | 196 | 74 | | | | 0 | | |
| | | Mountain whitefish | 194 | 68 | | | | 0 | | |
| | | Northern pike | 445 | 596 | | | | 2 | Yellow | 913 |
| | | Rainbow trout | 298 | | | | | 0 | Yellow | 1960 |
| Zone 2 Peace River | | | | | | | | | | |
| | BS0202 20/10/2001 | 47.7 | | | | | | | | |
| | | Prickly sculpin | 30 | | | | | 4 | | |
| | BS0203 20/10/2001 | 70.0 | | | | | | | | |
| | | Largescale sucker | 28 | | | | | 4 | | |
| | | Largescale sucker | 26 | | | | | 4 | | |
| | | Longnose sucker | 43 | | | | | 4 | | |
| | | Longnose sucker | 41 | | | | | 4 | | |
| | | Longnose sucker | 33 | | | | | 4 | | |
| | | Longnose sucker | 35 | | | | | 4 | | |
| | | Longnose sucker | 41 | | | | | 4 | | |
| | BS0205 25/08/2001 | 64.7 | | | | | | | | |
| | | Sucker spp. | 31 | | | | | 0 | | |
| | | Sucker spp. | 29 | | | | | 0 | | |
| | BS0206 20/10/2001 | 64.6 | | | | | | | | |
| | | Longnose sucker | 48 | | | | | 4 | | |
| | | Mountain whitefish | 96 | | | | | 0 | | |
| | | Northern pikeminnow | 76 | | | | | 0 | | |
| | | Prickly sculpin | 25 | | | | | 4 | | |
| | | Redside shiner | 62 | | | | | 0 | | |
| | | Redside shiner | 33 | | | | | 0 | | |
| | | Redside shiner | 33 | | | | | 0 | | |
| | | Redside shiner | 27 | | | | | 0 | | |
| | | Redside shiner | 50 | | | | | 0 | | |
| | | Redside shiner | 59 | | | | | 0 | | |
| | | Redside shiner | 50 | | | | | 0 | | |
| | | Redside shiner | 37 | | | | | 0 | | |
| | | Redside shiner | 47 | | | | | 0 | | |
| | | Redside shiner | 27 | | | | | 0 | | |
| | | Redside shiner | 44 | | | | | 0 | | |
| | | Redside shiner | 34 | | | | | 0 | | |
| | | Slimy sculpin | 72 | | | | | 4 | | |
| | | Spoonhead sculpin | 30 | | | | | 0 | | |
| | | Spottail shiner | 28 | | | | | 0 | | |
| | | Spottail shiner | 30 | | | | | 0 | | |
| | | Spottail shiner | 39 | | | | | 0 | | |
| | | Spottail shiner | 40 | | | | | 0 | | |
| | | Spottail shiner | 32 | | | | | 0 | | |
| | | Spottail shiner | 34 | | | | | 0 | | |

Appendix C Table C1. Life history data for fish sampled during Phase I of the Peace River Fish Community Indexing Program, 2001

| Area and Waterbody | Site Label Sample Date and Kilometre | Common Name | Fork Length (mm) | Weight (gm) | Sexual Maturity | Age Structure | Age | Capt. Code | Tag Colour | Tag Number |
|--------------------|--------------------------------------|-----------------|------------------|-------------|-----------------|---------------|-----|------------|------------|------------|
| Zone 2 | Peace River | | | | | | | | | |
| | BS0206 20/10/2001 | 64.6 | | | | | | | | |
| | | Spottail shiner | 33 | | | | | 0 | | |
| | | Spottail shiner | 31 | | | | | 0 | | |
| | | Spottail shiner | 27 | | | | | 0 | | |
| | | Spottail shiner | 41 | | | | | 0 | | |
| | | Spottail shiner | 32 | | | | | 0 | | |
| | | Spottail shiner | 31 | | | | | 0 | | |
| | | Spottail shiner | 35 | | | | | 0 | | |
| | | Spottail shiner | 34 | | | | | 0 | | |
| | | Spottail shiner | 38 | | | | | 0 | | |
| | | Spottail shiner | 40 | | | | | 0 | | |
| | | Spottail shiner | 35 | | | | | 0 | | |
| | | Spottail shiner | 33 | | | | | 0 | | |
| | | Spottail shiner | 43 | | | | | 0 | | |
| | | Spottail shiner | 32 | | | | | 0 | | |
| | | Spottail shiner | 29 | | | | | 0 | | |
| | | Spottail shiner | 34 | | | | | 0 | | |
| | | Spottail shiner | 39 | | | | | 0 | | |
| | | Spottail shiner | 34 | | | | | 0 | | |
| | | Spottail shiner | 36 | | | | | 0 | | |
| | | Spottail shiner | 37 | | | | | 0 | | |
| | | Spottail shiner | 30 | | | | | 0 | | |
| | | Spottail shiner | 38 | | | | | 0 | | |
| | | Spottail shiner | 39 | | | | | 0 | | |
| | | Spottail shiner | 34 | | | | | 0 | | |
| | | Spottail shiner | 43 | | | | | 0 | | |
| | | Spottail shiner | 34 | | | | | 0 | | |
| | | Spottail shiner | 36 | | | | | 0 | | |
| | | Spottail shiner | 42 | | | | | 0 | | |
| | | Spottail shiner | 28 | | | | | 0 | | |
| | | Spottail shiner | 34 | | | | | 0 | | |
| | | Spottail shiner | 38 | | | | | 0 | | |
| | | Spottail shiner | 29 | | | | | 0 | | |
| | | Spottail shiner | 25 | | | | | 0 | | |
| | | Spottail shiner | 37 | | | | | 0 | | |
| | | Spottail shiner | 38 | | | | | 0 | | |
| | | Spottail shiner | 33 | | | | | 0 | | |
| | | Spottail shiner | 34 | | | | | 0 | | |
| | | Spottail shiner | 39 | | | | | 0 | | |
| | | Spottail shiner | 41 | | | | | 0 | | |
| | | Spottail shiner | 38 | | | | | 0 | | |
| | | Spottail shiner | 33 | | | | | 0 | | |
| | | Spottail shiner | 37 | | | | | 0 | | |
| | | Spottail shiner | 41 | | | | | 0 | | |
| | | Spottail shiner | 32 | | | | | 0 | | |
| | | Spottail shiner | 34 | | | | | 0 | | |
| | | Spottail shiner | 32 | | | | | 0 | | |
| | | Spottail shiner | 54 | | | | | 0 | | |
| | | Spottail shiner | 42 | | | | | 0 | | |
| | | Spottail shiner | 29 | | | | | 0 | | |

Appendix C Table C1. Life history data for fish sampled during Phase I of the Peace River Fish Community Indexing Program, 2001

| Area and Waterbody | Site Label Sample Date and Kilometre | Common Name | Fork Length (mm) | Weight (gm) | Sexual Maturity | Age Structure | Age | Capt. Code | Tag Colour | Tag Number |
|--------------------|--------------------------------------|-----------------|------------------|-------------|-----------------|---------------|-----|------------|------------|------------|
| Zone 2 Peace River | | | | | | | | | | |
| | BS0206 20/10/2001 | 64.6 | | | | | | | | |
| | | Spottail shiner | 29 | | | | | 0 | | |
| | | Spottail shiner | 40 | | | | | 0 | | |
| | | Spottail shiner | 33 | | | | | 0 | | |
| | | Spottail shiner | 40 | | | | | 0 | | |
| | | Spottail shiner | 49 | | | | | 0 | | |
| | | Spottail shiner | 42 | | | | | 0 | | |
| | | Spottail shiner | 36 | | | | | 0 | | |
| | | Spottail shiner | 39 | | | | | 0 | | |
| | | Spottail shiner | 36 | | | | | 0 | | |
| | | Spottail shiner | 37 | | | | | 0 | | |
| | | Spottail shiner | 32 | | | | | 0 | | |
| | | Spottail shiner | 34 | | | | | 0 | | |
| | | Spottail shiner | 38 | | | | | 0 | | |
| | | Spottail shiner | 34 | | | | | 0 | | |
| | | Spottail shiner | 24 | | | | | 0 | | |
| | | Sucker spp. | 38 | | | | | 0 | | |
| | | Sucker spp. | 28 | | | | | 0 | | |
| | | Sucker spp. | 34 | | | | | 0 | | |
| | | Sucker spp. | 34 | | | | | 0 | | |
| | | Sucker spp. | 32 | | | | | 0 | | |
| | | Sucker spp. | 32 | | | | | 0 | | |
| | | Sucker spp. | 37 | | | | | 0 | | |
| | | Sucker spp. | 40 | | | | | 0 | | |
| | | Sucker spp. | 41 | | | | | 0 | | |
| | | Sucker spp. | 33 | | | | | 0 | | |
| | | Sucker spp. | 43 | | | | | 0 | | |
| | | Sucker spp. | 32 | | | | | 0 | | |
| | | Sucker spp. | 37 | | | | | 0 | | |
| | | Sucker spp. | 35 | | | | | 0 | | |
| | | Sucker spp. | 37 | | | | | 0 | | |
| | | Sucker spp. | 34 | | | | | 0 | | |
| | | Sucker spp. | 37 | | | | | 0 | | |
| | | Sucker spp. | 35 | | | | | 0 | | |
| | | Sucker spp. | 31 | | | | | 0 | | |
| | | Sucker spp. | 36 | | | | | 0 | | |
| | | Sucker spp. | 31 | | | | | 0 | | |
| | | Sucker spp. | 42 | | | | | 0 | | |
| | | Sucker spp. | 36 | | | | | 0 | | |
| | | Sucker spp. | 39 | | | | | 0 | | |
| | | Sucker spp. | 34 | | | | | 0 | | |
| | | Sucker spp. | 34 | | | | | 0 | | |
| | | Sucker spp. | 36 | | | | | 0 | | |
| | | Sucker spp. | 32 | | | | | 0 | | |
| | | Sucker spp. | 28 | | | | | 0 | | |
| | | Trout-perch | 68 | | | | | 0 | | |
| | BS0207 25/08/2001 | 61.2 | | | | | | | | |
| | | Redside shiner | 57 | | | | | 0 | | |
| | | Redside shiner | 51 | | | | | 0 | | |
| | | Redside shiner | 57 | | | | | 0 | | |

Appendix C Table C1. Life history data for fish sampled during Phase I of the Peace River Fish Community Indexing Program, 2001

| Area and Waterbody | Site Label Sample Date and Kilometre | Common Name | Fork Length (mm) | Weight (gm) | Sexual Maturity | Age Structure | Age | Capt. Code | Tag Colour | Tag Number |
|--------------------|--------------------------------------|-------------------|------------------|-------------|-----------------|---------------|-----|------------|------------|------------|
| Zone 2 Peace River | | | | | | | | | | |
| | BS0207 25/08/2001 | 61.2 | | | | | | | | |
| | | Redside shiner | 53 | | | | | 0 | | |
| | | Redside shiner | 56 | | | | | 0 | | |
| | | Redside shiner | 56 | | | | | 0 | | |
| | | Redside shiner | 53 | | | | | 0 | | |
| | | Redside shiner | 33 | | | | | 0 | | |
| | | Redside shiner | 58 | | | | | 0 | | |
| | | Redside shiner | 55 | | | | | 0 | | |
| | | Spoonhead sculpin | 24 | | | | | 0 | | |
| | | Spoonhead sculpin | 22 | | | | | 0 | | |
| | | Spottail shiner | 42 | | | | | 0 | | |
| | | Spottail shiner | 67 | | | | | 0 | | |
| | | Spottail shiner | 70 | | | | | 0 | | |
| | | Spottail shiner | 69 | | | | | 0 | | |
| | | Spottail shiner | 74 | | | | | 0 | | |
| | | Spottail shiner | 69 | | | | | 0 | | |
| | | Spottail shiner | 72 | | | | | 0 | | |
| | | Spottail shiner | 73 | | | | | 0 | | |
| | | Spottail shiner | 58 | | | | | 0 | | |
| | | Spottail shiner | 73 | | | | | 0 | | |
| | | Spottail shiner | 74 | | | | | 0 | | |
| | | Spottail shiner | 71 | | | | | 0 | | |
| | | Spottail shiner | 64 | | | | | 0 | | |
| | | Spottail shiner | 60 | | | | | 0 | | |
| | | Spottail shiner | 73 | | | | | 0 | | |
| | | Spottail shiner | 69 | | | | | 0 | | |
| | | Spottail shiner | 71 | | | | | 0 | | |
| | | Spottail shiner | 71 | | | | | 0 | | |
| | | Spottail shiner | 69 | | | | | 0 | | |
| | | Spottail shiner | 64 | | | | | 0 | | |
| | | Spottail shiner | 74 | | | | | 0 | | |
| | | Sucker spp. | 27 | | | | | 0 | | |
| | | Largescale sucker | 180 | | | | | 0 | | |
| | | Longnose sucker | 73 | | | | | 0 | | |
| | | Longnose sucker | 60 | | | | | 0 | | |
| | | Redside shiner | 30 | | | | | 0 | | |
| | | Redside shiner | 50 | | | | | 0 | | |
| | | Redside shiner | 69 | | | | | 0 | | |
| | | Redside shiner | 30 | | | | | 0 | | |
| | | Redside shiner | 22 | | | | | 0 | | |
| | | Spottail shiner | 31 | | | | | 0 | | |
| | | Spottail shiner | 31 | | | | | 0 | | |
| | | Spottail shiner | 24 | | | | | 0 | | |
| | | Spottail shiner | 32 | | | | | 0 | | |
| | | Spottail shiner | 33 | | | | | 0 | | |
| | | Spottail shiner | 35 | | | | | 0 | | |
| | | Spottail shiner | 76 | | | | | 0 | | |
| | | Spottail shiner | 31 | | | | | 0 | | |
| | | Spottail shiner | 39 | | | | | 0 | | |
| | | Spottail shiner | 29 | | | | | 0 | | |

Appendix C Table C1. Life history data for fish sampled during Phase I of the Peace River Fish Community Indexing Program, 2001

| Area and Waterbody | Site Label Sample Date and Kilometre | Common Name | Fork Length (mm) | Weight (gm) | Sexual Maturity | Age Structure | Age | Capt. Code | Tag Colour | Tag Number |
|--------------------|--|-----------------|---------------------|----------------|--------------------|------------------|-----|---------------|---------------|---------------|
| Zone 2 Peace River | | | | | | | | | | |
| | BS0207 25/08/2001 | 61.2 | | | | | | | | |
| | | Spottail shiner | 30 | | | | | 0 | | |
| | | Spottail shiner | 30 | | | | | 0 | | |
| | | Spottail shiner | 71 | | | | | 0 | | |
| | | Spottail shiner | 77 | | | | | 0 | | |
| | | Spottail shiner | 33 | | | | | 0 | | |
| | | Spottail shiner | 37 | | | | | 0 | | |
| | | Spottail shiner | 30 | | | | | 0 | | |
| | | Sucker spp. | 44 | | | | | 0 | | |
| | | Sucker spp. | 36 | | | | | 0 | | |
| | | Sucker spp. | 45 | | | | | 0 | | |
| | | Sucker spp. | 29 | | | | | 0 | | |
| | | Sucker spp. | 40 | | | | | 0 | | |
| | | Yellow perch | 124 | | | | | 0 | | |
| | BS0209 25/08/2001 | 53.6 | | | | | | | | |
| | | Northern pike | 202 | | | Scale | 2 | 0 | | |
| | | Spottail shiner | 48 | | | | | 0 | | |
| | | Spottail shiner | 50 | | | | | 0 | | |
| | | Sucker spp. | 31 | | | | | 0 | | |
| | | Sucker spp. | 32 | | | | | 0 | | |
| | | Sucker spp. | 28 | | | | | 0 | | |
| | | Sucker spp. | 26 | | | | | 0 | | |
| | | Sucker spp. | 31 | | | | | 0 | | |
| | | Sucker spp. | 28 | | | | | 0 | | |
| | | Sucker spp. | 35 | | | | | 0 | | |
| | | Sucker spp. | 32 | | | | | 0 | | |
| | | Sucker spp. | 33 | | | | | 0 | | |
| | | Sucker spp. | 29 | | | | | 0 | | |
| | | Sucker spp. | 39 | | | | | 0 | | |
| | | Sucker spp. | 34 | | | | | 0 | | |
| | | Sucker spp. | 27 | | | | | 0 | | |
| | | Sucker spp. | 27 | | | | | 0 | | |
| | | Sucker spp. | 28 | | | | | 0 | | |
| | BS0210 20/10/2001 | 64.5 | | | | | | | | |
| | | Longnose sucker | 104 | | | | | 0 | | |
| | | Redside shiner | 72 | | | | | 0 | | |
| | | Redside shiner | 91 | | | | | 0 | | |
| | | Redside shiner | 89 | | | | | 0 | | |
| | | Sucker spp. | 42 | | | | | 0 | | |
| | EF0201 25/08/2001 | 70.0 | | | | | | | | |
| | | Longnose dace | 29 | | | | | 0 | | |
| | | Longnose dace | 28 | | | | | 0 | | |
| | | Longnose dace | 32 | | | | | 0 | | |
| | | Longnose dace | 34 | | | | | 0 | | |
| | | Longnose dace | 31 | | | | | 0 | | |
| | | Longnose dace | 33 | | | | | 0 | | |
| | | Longnose dace | 34 | | | | | 0 | | |
| | | Longnose dace | 32 | | | | | 0 | | |
| | | Longnose dace | 36 | | | | | 0 | | |
| | | Longnose dace | 31 | | | | | 0 | | |

Appendix C Table C1. Life history data for fish sampled during Phase I of the Peace River Fish Community Indexing Program, 2001

| Area and Waterbody | Site Label Sample Date and Kilometre | Common Name | Fork Length (mm) | Weight (gm) | Sexual Maturity | Age Structure | Age | Capt. Code | Tag Colour | Tag Number |
|--------------------|--------------------------------------|---------------------|------------------|-------------|-----------------|---------------|-----|------------|------------|------------|
| Zone 2 Peace River | | | | | | | | | | |
| | EF0201 25/08/2001 | 70.0 | | | | | | | | |
| | | Longnose dace | 34 | | | | | 0 | | |
| | | Longnose sucker | 84 | | | | | 0 | | |
| | | Longnose sucker | 68 | | | | | 0 | | |
| | | Slimy sculpin | 61 | | | | | 0 | | |
| | | Slimy sculpin | 57 | | | | | 0 | | |
| | EF0202 25/08/2001 | 65.6 | | | | | | | | |
| | | Longnose dace | 24 | | | | | 0 | | |
| | | Longnose dace | 45 | | | | | 0 | | |
| | | Redside shiner | 22 | | | | | 0 | | |
| | | Slimy sculpin | 76 | | | | | 0 | | |
| | | Sucker spp. | 25 | | | | | 0 | | |
| | | Sucker spp. | 29 | | | | | 0 | | |
| | | Sucker spp. | 22 | | | | | 0 | | |
| | | Sucker spp. | 28 | | | | | 0 | | |
| | | Sucker spp. | 22 | | | | | 0 | | |
| | | Sucker spp. | 27 | | | | | 0 | | |
| | | Sucker spp. | 28 | | | | | 0 | | |
| | | Sucker spp. | 24 | | | | | 0 | | |
| | | Sucker spp. | 25 | | | | | 0 | | |
| | | Sucker spp. | 21 | | | | | 0 | | |
| | EF0203 25/08/2001 | 64.5 | | | | | | | | |
| | | Longnose dace | 62 | | | | | 0 | | |
| | | Longnose dace | 68 | | | | | 0 | | |
| | | Longnose dace | 77 | | | | | 0 | | |
| | | Longnose dace | 70 | | | | | 0 | | |
| | | Longnose dace | 76 | | | | | 0 | | |
| | | Longnose dace | 60 | | | | | 0 | | |
| | | Longnose dace | 69 | | | | | 0 | | |
| | | Longnose dace | 46 | | | | | 0 | | |
| | | Longnose dace | 74 | | | | | 0 | | |
| | | Longnose sucker | 155 | | | | | 0 | | |
| | | Longnose sucker | 114 | | | | | 0 | | |
| | | Northern pikeminnow | 94 | | | | | 0 | | |
| | | Redside shiner | 75 | | | | | 0 | | |
| | | Redside shiner | 106 | | | | | 0 | | |
| | | Redside shiner | 89 | | | | | 0 | | |
| | | Redside shiner | 76 | | | | | 0 | | |
| | | Redside shiner | 76 | | | | | 0 | | |
| | | Redside shiner | 64 | | | | | 0 | | |
| | | Spottail shiner | 56 | | | | | 0 | | |
| | EF0204 25/08/2001 | 57.2 | | | | | | | | |
| | | Longnose sucker | 113 | | | | | 0 | | |
| | | Slimy sculpin | 46 | | | | | 0 | | |
| | | Slimy sculpin | 58 | | | | | 0 | | |
| | | Slimy sculpin | 79 | | | | | 0 | | |
| | | Slimy sculpin | 70 | | | | | 0 | | |
| | | Slimy sculpin | 43 | | | | | 0 | | |
| | | Slimy sculpin | 67 | | | | | 0 | | |
| | | Slimy sculpin | 56 | | | | | 0 | | |

Appendix C Table C1. Life history data for fish sampled during Phase I of the Peace River Fish Community Indexing Program, 2001

| Area and Waterbody | Site Label Sample Date and Kilometre | Common Name | Fork Length (mm) | Weight (gm) | Sexual Maturity | Age Structure | Age | Capt. Code | Tag Colour | Tag Number |
|--------------------|--|--------------------|---------------------|----------------|--------------------|------------------|-----|---------------|---------------|---------------|
| Zone 2 Peace River | | | | | | | | | | |
| | EF0204 25/08/2001 | 57.2 | | | | | | | | |
| | | Slimy sculpin | 57 | | | | | 0 | | |
| | | Slimy sculpin | 47 | | | | | 0 | | |
| | | Slimy sculpin | 41 | | | | | 0 | | |
| | | Slimy sculpin | 54 | | | | | 0 | | |
| | | Slimy sculpin | 53 | | | | | 0 | | |
| | ES0201 23/08/2001 | 70.0 | | | | | | | | |
| | | Longnose sucker | 389 | 942 | | | | 0 | Yellow | 606 |
| | | Mountain whitefish | 194 | 66 | | | | 0 | | |
| | | Mountain whitefish | 287 | | | | | 0 | | |
| | | Lake whitefish | 274 | 220 | | Scale | 3 | 0 | Yellow | 1700 |
| | | Lake whitefish | 253 | 166 | | Scale | 3 | 0 | Yellow | 1804 |
| | | Largescale sucker | 403 | 862 | | | | 0 | Yellow | 1813 |
| | | Largescale sucker | 340 | 516 | | | | 0 | Yellow | 1810 |
| | | Largescale sucker | 366 | 640 | | | | 0 | Yellow | 1812 |
| | | Largescale sucker | 373 | 678 | | | | 0 | Yellow | 1811 |
| | | Largescale sucker | 370 | 720 | | | | 0 | Yellow | 1808 |
| | | Longnose sucker | 438 | 1190 | | | | 0 | Yellow | 1809 |
| | | Longnose sucker | 423 | | | | | 0 | Yellow | 1807 |
| | | Longnose sucker | 378 | 714 | | | | 0 | Yellow | 1695 |
| | | Longnose sucker | 391 | 750 | | | | 0 | Yellow | 1806 |
| | | Longnose sucker | 478 | 1456 | | | | 0 | Yellow | 1697 |
| | | Longnose sucker | 455 | 1214 | | | | 0 | Yellow | 1803 |
| | | Longnose sucker | 447 | 1158 | | | | 0 | Yellow | 1699 |
| | | Longnose sucker | 438 | 1148 | | | | 0 | Yellow | 1805 |
| | | Mountain whitefish | 276 | 212 | | | | 0 | Yellow | 1815 |
| | | Mountain whitefish | 206 | 92 | | | | 0 | | |
| | | Mountain whitefish | 230 | 140 | | | | 0 | | |
| | | Mountain whitefish | 104 | 10 | | | | 0 | | |
| | | Mountain whitefish | 327 | 430 | | | | 0 | Yellow | 1814 |
| | | Northern pike | 564 | 1314 | | Fin Ray | 5 | 0 | Yellow | 1696 |
| | | Northern pike | 490 | 898 | | Fin Ray | 4 | 0 | Yellow | 1801 |
| | | Rainbow trout | 435 | 912 | | | | 0 | Yellow | 1817 |
| | | Walleye | 475 | 1310 | | Fin Ray | 9 | 0 | Yellow | 1698 |
| | | Walleye | 446 | 992 | | Fin Ray | 6 | 0 | Yellow | 1816 |
| | | Walleye | 442 | 1028 | | Fin Ray | 7 | 0 | Yellow | 1802 |
| | ES0202 23/08/2001 | 68.0 | | | | | | | | |
| | | Arctic grayling | 218 | 78 | | | | 0 | | |
| | | Arctic grayling | | | | | | 0 | | |
| | | Bull trout | 275 | 216 | | | | 0 | Yellow | 613 |
| | | Largescale sucker | 467 | 476 | | | | 0 | | |
| | | Largescale sucker | 319 | 404 | | | | 0 | | |
| | | Largescale sucker | 144 | 40 | | | | 0 | | |
| | | Longnose sucker | 428 | 886 | 9 | | | 0 | Yellow | 608 |
| | | Longnose sucker | 395 | 862 | | | | 0 | Yellow | 607 |
| | | Longnose sucker | 102 | 10 | | | | 0 | | |
| | | Longnose sucker | 134 | 28 | | | | 0 | | |
| | | Mountain whitefish | 388 | | | | | 0 | | |
| | | Mountain whitefish | 258 | 184 | | | | 0 | Yellow | 612 |
| | | Mountain whitefish | 204 | 66 | | | | 0 | | |

Appendix C Table C1. Life history data for fish sampled during Phase I of the Peace River Fish Community Indexing Program, 2001

| Area and Waterbody | Site Label Sample Date and Kilometre | Common Name | Fork Length (mm) | Weight (gm) | Sexual Maturity | Age Structure | Age | Capt. Code | Tag Colour | Tag Number |
|--------------------|--|---------------------|---------------------|----------------|--------------------|------------------|-----|---------------|---------------|---------------|
| Zone 2 Peace River | | | | | | | | | | |
| | ES0202 23/08/2001 | 68.0 | | | | | | | | |
| | | Mountain whitefish | 189 | 66 | | | | 0 | | |
| | | Mountain whitefish | 205 | 78 | | | | 0 | | |
| | | Mountain whitefish | 198 | 72 | | | | 0 | | |
| | | Mountain whitefish | 310 | 386 | | | | 0 | Yellow | 614 |
| | | Mountain whitefish | 195 | 78 | | | | 0 | | |
| | | Mountain whitefish | 383 | 620 | | | | 0 | Yellow | 611 |
| | | Mountain whitefish | 349 | 454 | | | | 0 | Yellow | 609 |
| | | Mountain whitefish | 353 | | | | | 0 | | |
| | | Mountain whitefish | 298 | 274 | | | | 0 | Yellow | 615 |
| | | Mountain whitefish | 345 | 516 | | | | 0 | Yellow | 610 |
| | | Arctic grayling | 103 | 8 | | | | 0 | | |
| | | Arctic grayling | 134 | 26 | | | | 0 | | |
| | | Arctic grayling | 315 | | | | | 2 | Yellow | 1818 |
| | | Arctic grayling | 124 | 22 | | | | 0 | | |
| | | Longnose sucker | 322 | 434 | | | | 0 | | |
| | | Longnose sucker | 417 | 1022 | | | | 0 | | |
| | | Longnose sucker | 373 | 712 | | | | 0 | | |
| | | Longnose sucker | 446 | 1314 | | | | 0 | | |
| | | Longnose sucker | 407 | 834 | | | | 0 | | |
| | | Longnose sucker | 414 | 906 | | | | 0 | | |
| | | Longnose sucker | 426 | 1068 | | | | 0 | | |
| | | Longnose sucker | 398 | 784 | | | | 0 | | |
| | | Mountain whitefish | 150 | 32 | | | | 0 | | |
| | | Mountain whitefish | 325 | | | | | 2 | Yellow | 1833 |
| | | Mountain whitefish | 420 | 1006 | | | | 0 | | |
| | | Mountain whitefish | 162 | 44 | | | | 0 | | |
| | | Mountain whitefish | 211 | 102 | | | | 0 | | |
| | | Mountain whitefish | 158 | 36 | | | | 0 | | |
| | | Mountain whitefish | 265 | 214 | | | | 0 | | |
| | | Mountain whitefish | 430 | | | | | 2 | Yellow | 1821 |
| | | Mountain whitefish | 236 | 140 | | | | 0 | | |
| | | Trout-perch | 74 | 4 | | | | 0 | | |
| | ES0203 23/08/2001 | 64.8 | | | | | | | | |
| | | Largescale sucker | 501 | | | | | 0 | | |
| | | Largescale sucker | 520 | 1986 | | | | 0 | Yellow | 616 |
| | | Mountain whitefish | 319 | 368 | | | | 0 | Yellow | 618 |
| | | Northern pike | 514 | 934 | | Fin Ray | 4 | 0 | Yellow | 617 |
| | | Northern pikeminnow | 561 | 2270 | | | | 2 | White | 13089 |
| | | Redside shiner | 83 | | | | | 0 | | |
| | | Arctic grayling | 357 | 584 | | | | 0 | Yellow | 1845 |
| | | Bull trout | 566 | | | Fin Ray | | 0 | Yellow | 1846 |
| | | Longnose sucker | 410 | 958 | | | | 0 | | |
| | | Longnose sucker | 384 | 820 | | | | 0 | | |
| | | Mountain whitefish | 358 | 490 | | | 8 | 0 | | |
| | | Mountain whitefish | 238 | 140 | | | | 0 | | |
| | | Mountain whitefish | 298 | | | | | 0 | | |
| | | Mountain whitefish | 308 | 360 | | | | 0 | | |
| | | Mountain whitefish | 227 | 120 | | | | 0 | | |
| | | Mountain whitefish | 161 | 38 | | | | 0 | | |

Appendix C Table C1. Life history data for fish sampled during Phase I of the Peace River Fish Community Indexing Program, 2001

| Area and Waterbody | Site Label Sample Date and Kilometre | Common Name | Fork Length (mm) | Weight (gm) | Sexual Maturity | Age Structure | Age | Capt. Code | Tag Colour | Tag Number |
|--------------------|--|--------------------|---------------------|----------------|--------------------|------------------|-----|---------------|---------------|---------------|
| Zone 2 Peace River | | | | | | | | | | |
| | ES0203 | 23/08/2001 | 64.8 | | | | | | | |
| | | Mountain whitefish | 276 | 256 | | | | 0 | | |
| | | Mountain whitefish | 157 | | | | | 0 | | |
| | | Mountain whitefish | 435 | | | | | 0 | Yellow | 1844 |
| | | Mountain whitefish | 197 | 72 | | | | 0 | | |
| | | Mountain whitefish | 329 | 460 | | | | 0 | | |
| | | Mountain whitefish | 394 | 688 | | | | 0 | | |
| | | Mountain whitefish | 324 | 386 | | | | 0 | | |
| | | Mountain whitefish | 319 | 330 | 8 | | | 0 | | |
| | | Mountain whitefish | 210 | 110 | | | | 0 | | |
| | ES0204 | 23/08/2001 | 64.0 | | | | | | | |
| | | Arctic grayling | 289 | 274 | | | | 0 | Yellow | 642 |
| | | Arctic grayling | 381 | 714 | 10 | | | 0 | Yellow | 639 |
| | | Arctic grayling | 317 | 362 | | | | 0 | Yellow | 631 |
| | | Arctic grayling | 352 | 464 | | | | 0 | Yellow | 624 |
| | | Bull trout | 171 | 52 | | Scale | 2 | 0 | | |
| | | Bull trout | 309 | 166 | | Fin Ray | | 0 | Yellow | 653 |
| | | Largescale sucker | 139 | 34 | | | | 0 | | |
| | | Largescale sucker | 241 | 178 | | | | 0 | | |
| | | Longnose sucker | 248 | 176 | | | | 0 | | |
| | | Longnose sucker | 169 | 58 | | | | 0 | | |
| | | Longnose sucker | 243 | 146 | | | | 0 | | |
| | | Longnose sucker | 246 | 208 | | | | 0 | | |
| | | Longnose sucker | 369 | 744 | | | | 0 | Yellow | 646 |
| | | Longnose sucker | 167 | 54 | | | | 0 | | |
| | | Longnose sucker | 209 | 116 | | | | 0 | | |
| | | Longnose sucker | 156 | 44 | | | | 0 | | |
| | | Longnose sucker | 260 | 214 | | | | 0 | Yellow | 648 |
| | | Longnose sucker | 310 | 344 | | | | 0 | Yellow | 652 |
| | | Longnose sucker | 279 | 264 | | | | 0 | | |
| | | Longnose sucker | 154 | 42 | | | | 0 | | |
| | | Mountain whitefish | 291 | 312 | | | | 0 | Yellow | 643 |
| | | Mountain whitefish | 443 | 934 | | | | 0 | Yellow | 635 |
| | | Mountain whitefish | 250 | 160 | | | | 0 | Yellow | 634 |
| | | Mountain whitefish | 332 | | | | | 0 | Yellow | 633 |
| | | Mountain whitefish | 193 | 68 | | | | 0 | | |
| | | Mountain whitefish | 330 | 452 | | | | 0 | Yellow | 630 |
| | | Mountain whitefish | 332 | 402 | | | | 0 | Yellow | 629 |
| | | Mountain whitefish | 441 | 900 | | | | 0 | Yellow | 627 |
| | | Mountain whitefish | 340 | 496 | | | | 0 | Yellow | 636 |
| | | Mountain whitefish | 337 | 488 | | | | 0 | Yellow | 628 |
| | | Mountain whitefish | 254 | 162 | | | | 0 | Yellow | 655 |
| | | Mountain whitefish | 353 | | | | | 0 | | |
| | | Mountain whitefish | 365 | 600 | | | | 0 | Yellow | 623 |
| | | Mountain whitefish | 364 | 518 | | | | 0 | Yellow | 622 |
| | | Mountain whitefish | 463 | 1084 | | | | 0 | Yellow | 621 |
| | | Mountain whitefish | 431 | 1032 | | | | 0 | Yellow | 620 |
| | | Mountain whitefish | 497 | 1472 | | | | 0 | Yellow | 619 |
| | | Mountain whitefish | 133 | 22 | | | | 0 | | |
| | | Mountain whitefish | 74 | 4 | | | | 0 | | |

Appendix C Table C1. Life history data for fish sampled during Phase I of the Peace River Fish Community Indexing Program, 2001

| Area and Waterbody | Site Label Sample Date and Kilometre | Common Name | Fork Length (mm) | Weight (gm) | Sexual Maturity | Age Structure | Age | Capt. Code | Tag Colour | Tag Number |
|--------------------|--|--------------------|---------------------|----------------|--------------------|------------------|-----|---------------|---------------|---------------|
| Zone 2 | Peace River | | | | | | | | | |
| | ES0204 | 23/08/2001 | 64.0 | | | | | | | |
| | | Mountain whitefish | 272 | 234 | | | | 0 | Yellow | 649 |
| | | Mountain whitefish | 357 | 576 | | | | 0 | Yellow | 625 |
| | | Mountain whitefish | 416 | | | | | 0 | | |
| | | Mountain whitefish | 389 | 746 | | | | 0 | Yellow | 640 |
| | | Mountain whitefish | 194 | 58 | | | | 0 | | |
| | | Mountain whitefish | 214 | 92 | | | | 0 | | |
| | | Mountain whitefish | 410 | 912 | | | | 0 | Yellow | 637 |
| | | Mountain whitefish | 262 | 196 | | | | 0 | Yellow | 654 |
| | | Mountain whitefish | 246 | 166 | | | | 0 | | |
| | | Mountain whitefish | 275 | 220 | | | | 0 | Yellow | 651 |
| | | Mountain whitefish | 276 | 194 | | | | 0 | Yellow | 650 |
| | | Mountain whitefish | 264 | 178 | | | | 0 | Yellow | 647 |
| | | Mountain whitefish | | | | | | 0 | | |
| | | Mountain whitefish | 246 | 148 | | | | 0 | | |
| | | Mountain whitefish | 428 | 962 | | | | 0 | Yellow | 645 |
| | | Mountain whitefish | 201 | 76 | | | | 0 | | |
| | | Mountain whitefish | 418 | | | | | 0 | Yellow | 644 |
| | | Mountain whitefish | 323 | 364 | | | | 0 | Yellow | 641 |
| | | Mountain whitefish | 449 | 1106 | | | | 0 | Yellow | 626 |
| | | Mountain whitefish | 337 | 496 | | | | 0 | Yellow | 638 |
| | | Mountain whitefish | | | | | | 0 | | |
| | | Mountain whitefish | 341 | 446 | | | | 0 | Yellow | 632 |
| | | Redside shiner | 36 | | | | | 0 | | |
| | | Redside shiner | 34 | | | | | 0 | | |
| | | Arctic grayling | 378 | 576 | | | | 0 | Yellow | 1702 |
| | | Arctic grayling | 279 | 268 | | | | 0 | Yellow | 1848 |
| | | Arctic grayling | 112 | | | | | 0 | | |
| | | Arctic grayling | 124 | 18 | | | | 0 | | |
| | | Arctic grayling | 389 | 774 | | | | 0 | Yellow | 1847 |
| | | Arctic grayling | 318 | 392 | | | | 0 | | |
| | | Arctic grayling | 298 | 274 | | | | 0 | Yellow | 1850 |
| | | Lake whitefish | 484 | 1458 | | Scale | 7 | 0 | Yellow | 1849 |
| | | Mountain whitefish | 337 | 452 | 8 | | | 0 | | |
| | | Mountain whitefish | 267 | 196 | | | | 0 | | |
| | | Mountain whitefish | 240 | 150 | | | | 0 | | |
| | | Mountain whitefish | 307 | 398 | 8 | | | 0 | | |
| | | Mountain whitefish | 335 | 494 | 8 | | | 0 | | |
| | | Mountain whitefish | 289 | 300 | | | | 0 | | |
| | | Mountain whitefish | 307 | 360 | 8 | | | 0 | | |
| | | Mountain whitefish | 365 | 540 | 8 | | | 0 | | |
| | | Mountain whitefish | 352 | 508 | 8 | | | 0 | | |
| | | Mountain whitefish | 113 | 12 | | | | 0 | | |
| | | Mountain whitefish | 325 | 416 | | | | 0 | | |
| | | Mountain whitefish | 406 | 782 | | | | 0 | | |
| | | Mountain whitefish | 207 | 100 | | | | 0 | | |
| | | Mountain whitefish | 305 | | 8 | | | 0 | | |
| | | Mountain whitefish | 303 | 346 | | | | 0 | Yellow | 1701 |
| | | Mountain whitefish | 363 | 522 | 8 | | | 0 | | |
| | | Mountain whitefish | 341 | 482 | 8 | | | 0 | | |

Appendix C Table C1. Life history data for fish sampled during Phase I of the Peace River Fish Community Indexing Program, 2001

| Area and Waterbody | Site Label Sample Date and Kilometre | Common Name | Fork Length (mm) | Weight (gm) | Sexual Maturity | Age Structure | Age | Capt. Code | Tag Colour | Tag Number |
|--------------------|--------------------------------------|--------------------|------------------|-------------|-----------------|---------------|-----|------------|------------|------------|
| Zone 2 Peace River | | | | | | | | | | |
| | ES0204 23/08/2001 64.0 | Mountain whitefish | 336 | | | | | 0 | | |
| | | Mountain whitefish | 305 | 330 | 8 | | | 0 | | |
| | | Mountain whitefish | 338 | 440 | 8 | | | 0 | | |
| | | Mountain whitefish | 415 | | | | | 0 | | |
| | | Mountain whitefish | 391 | 658 | 8 | | | 0 | | |
| | | Mountain whitefish | 340 | 518 | | | | 0 | | |
| | | Mountain whitefish | 303 | 348 | 8 | | | 0 | | |
| | | Mountain whitefish | 294 | 322 | 8 | | | 0 | | |
| | | Mountain whitefish | 365 | 520 | 8 | | | 0 | | |
| | | Mountain whitefish | 369 | 570 | 8 | | | 0 | | |
| | | Mountain whitefish | 348 | 484 | 8 | | | 0 | | |
| | | Mountain whitefish | 452 | 1060 | | | | 0 | | |
| | | Mountain whitefish | 279 | 250 | 8 | | | 0 | | |
| | | Mountain whitefish | 315 | 410 | 8 | | | 0 | | |
| | | Mountain whitefish | 337 | 468 | 8 | | | 0 | | |
| | | Mountain whitefish | 137 | 28 | | | | 0 | | |
| | | Mountain whitefish | 348 | 464 | 8 | | | 0 | | |
| | | Mountain whitefish | 292 | 352 | 8 | | | 0 | | |
| | | Mountain whitefish | 153 | 38 | | | | 0 | | |
| | | Mountain whitefish | 105 | 12 | | | | 0 | | |
| | | Mountain whitefish | 345 | 592 | | | | 0 | | |
| | | Mountain whitefish | 280 | 244 | 8 | | | 0 | | |
| | | Mountain whitefish | 151 | 34 | | | | 0 | | |
| | | Mountain whitefish | 285 | 326 | 8 | | | 0 | | |
| | | Mountain whitefish | 343 | 538 | 8 | | | 0 | | |
| | | Redside shiner | 100 | 8 | | | | 0 | | |
| | ES0205 23/08/2001 62.0 | Arctic grayling | 277 | 340 | | | | 0 | Yellow | 662 |
| | | Arctic grayling | 287 | 240 | | | | 0 | Yellow | 661 |
| | | Arctic grayling | 159 | 50 | | | | 0 | | |
| | | Largescale sucker | 348 | 490 | | | | 0 | Yellow | 656 |
| | | Longnose sucker | 425 | 888 | | | | 0 | Yellow | 658 |
| | | Longnose sucker | 375 | 706 | | | | 0 | Yellow | 657 |
| | | Longnose sucker | 126 | 26 | | | | 0 | | |
| | | Mountain whitefish | 264 | 190 | | | | 0 | Yellow | 659 |
| | | Mountain whitefish | 351 | 524 | | | | 0 | Yellow | 660 |
| | | Arctic grayling | 408 | | | | | 0 | Yellow | 1704 |
| | | Arctic grayling | 288 | | | | | 0 | Yellow | 1707 |
| | | Arctic grayling | 435 | | | | | 0 | Yellow | 1706 |
| | | Arctic grayling | 167 | | | | | 0 | | |
| | | Arctic grayling | 415 | | | | | 0 | Yellow | 1703 |
| | | Largescale sucker | 393 | | | | | 0 | | |
| | | Longnose sucker | 399 | | | | | 0 | | |
| | | Longnose sucker | 403 | | | | | 0 | | |
| | | Longnose sucker | 417 | | | | | 0 | | |
| | | Longnose sucker | 341 | | | | | 0 | | |
| | | Longnose sucker | 452 | | | | | 0 | | |
| | | Longnose sucker | 354 | | | | | 0 | | |
| | | Longnose sucker | 415 | | | | | 0 | | |

Appendix C Table C1. Life history data for fish sampled during Phase I of the Peace River Fish Community Indexing Program, 2001

| Area and Waterbody | Site Label Sample Date and Kilometre | Common Name | Fork Length (mm) | Weight (gm) | Sexual Maturity | Age Structure | Age | Capt. Code | Tag Colour | Tag Number |
|--------------------|--------------------------------------|--------------------|------------------|-------------|-----------------|---------------|-----|------------|------------|------------|
| Zone 2 Peace River | | | | | | | | | | |
| | ES0205 23/08/2001 | 62.0 | | | | | | | | |
| | | Longnose sucker | 420 | | | | | 0 | | |
| | | Longnose sucker | 456 | | | | | 0 | | |
| | | Longnose sucker | 358 | | | | | 0 | | |
| | | Longnose sucker | 365 | | | | | 0 | | |
| | | Longnose sucker | 372 | | | | | 0 | | |
| | | Longnose sucker | 412 | | | | | 0 | | |
| | | Mountain whitefish | 429 | | | | | 0 | | |
| | ES0206 23/08/2001 | 60.5 | | | | | | | | |
| | | Bull trout | 416 | 678 | | Fin Ray | | 0 | Yellow | 681 |
| | | Bull trout | 419 | 688 | | Fin Ray | | 0 | Yellow | 679 |
| | | Largescale sucker | 454 | 1270 | | | | 0 | Yellow | 663 |
| | | Longnose dace | 86 | | | | | 0 | | |
| | | Longnose sucker | 180 | 74 | | | | 0 | | |
| | | Mountain whitefish | 281 | 248 | | | | 0 | Yellow | 677 |
| | | Mountain whitefish | 190 | 64 | | | | 0 | | |
| | | Mountain whitefish | 217 | 102 | | | | 0 | | |
| | | Mountain whitefish | 147 | 26 | | | | 0 | | |
| | | Mountain whitefish | 130 | 26 | | | | 0 | | |
| | | Mountain whitefish | 257 | 172 | | | | 0 | Yellow | 680 |
| | | Mountain whitefish | 183 | 62 | | | | 0 | | |
| | | Mountain whitefish | 136 | 26 | | | | 0 | | |
| | | Mountain whitefish | 422 | 1084 | | | | 0 | Yellow | 665 |
| | | Mountain whitefish | 102 | 8 | | | | 0 | | |
| | | Mountain whitefish | 192 | 76 | | | | 0 | | |
| | | Mountain whitefish | 125 | 20 | | | | 0 | | |
| | | Mountain whitefish | 127 | 20 | | | | 0 | | |
| | | Mountain whitefish | 121 | 18 | | | | 0 | | |
| | | Mountain whitefish | 332 | 422 | | | | 0 | Yellow | 670 |
| | | Mountain whitefish | 390 | 692 | | | | 0 | Yellow | 664 |
| | | Mountain whitefish | 428 | 906 | | | | 0 | Yellow | 666 |
| | | Mountain whitefish | 393 | 756 | | | | 0 | Yellow | 667 |
| | | Mountain whitefish | 367 | 554 | | | | 0 | Yellow | 668 |
| | | Mountain whitefish | 262 | 176 | | | | 0 | Yellow | 669 |
| | | Mountain whitefish | 384 | 606 | | | | 0 | Yellow | 671 |
| | | Mountain whitefish | 430 | 972 | | | | 0 | Yellow | 672 |
| | | Mountain whitefish | 355 | 586 | | | | 0 | Yellow | 673 |
| | | Mountain whitefish | 313 | 326 | | | | 0 | Yellow | 674 |
| | | Mountain whitefish | 289 | 276 | | | | 0 | Yellow | 675 |
| | | Mountain whitefish | 76 | | | | | 0 | | |
| | | Mountain whitefish | 87 | | | | | 0 | | |
| | | Mountain whitefish | 254 | 184 | | | | 0 | Yellow | 676 |
| | | Mountain whitefish | 191 | 62 | | | | 0 | | |
| | | Mountain whitefish | 82 | 8 | | | | 0 | | |
| | | Mountain whitefish | 202 | 80 | | | | 0 | | |
| | | Mountain whitefish | 81 | 4 | | | | 0 | | |
| | | Northern pike | 271 | 160 | | | | 0 | Yellow | 678 |
| | | Longnose sucker | 405 | 982 | | | | 0 | | |
| | | Mountain whitefish | 280 | | | 8 | | 0 | | |
| | | Mountain whitefish | 220 | 122 | | | | 0 | | |

Appendix C Table C1. Life history data for fish sampled during Phase I of the Peace River Fish Community Indexing Program, 2001

| Area and Waterbody | Site Label Sample Date and Kilometre | Common Name | Fork Length (mm) | Weight (gm) | Sexual Maturity | Age Structure | Age | Capt. Code | Tag Colour | Tag Number |
|--------------------|--------------------------------------|--------------------|------------------|-------------|-----------------|---------------|-----|------------|------------|------------|
| Zone 2 Peace River | | | | | | | | | | |
| | ES0206 23/08/2001 | 60.5 | | | | | | | | |
| | | Mountain whitefish | 303 | 310 | 8 | | | 0 | | |
| | | Mountain whitefish | 296 | | 8 | | | 0 | | |
| | | Mountain whitefish | 321 | 394 | 8 | | | 0 | | |
| | | Mountain whitefish | 283 | 230 | 8 | | | 0 | | |
| | | Mountain whitefish | 317 | 390 | 8 | | | 0 | | |
| | | Mountain whitefish | 321 | 382 | 8 | | | 0 | | |
| | | Mountain whitefish | 320 | 330 | 8 | | | 0 | | |
| | | Mountain whitefish | 312 | 388 | 8 | | | 0 | | |
| | | Mountain whitefish | 323 | | 8 | | | 0 | | |
| | | Mountain whitefish | 349 | 546 | | | | 0 | | |
| | | Mountain whitefish | 343 | 432 | 8 | | | 0 | | |
| | | Mountain whitefish | 430 | 942 | 8 | | | 0 | | |
| | | Mountain whitefish | 406 | 828 | | | | 0 | | |
| | | Mountain whitefish | 316 | 402 | | | | 0 | | |
| | | Mountain whitefish | 344 | 420 | 8 | | | 0 | | |
| | | Mountain whitefish | 376 | 622 | | | | 0 | | |
| | | Mountain whitefish | 308 | | 8 | | | 0 | | |
| | | Mountain whitefish | 438 | 994 | | | | 0 | | |
| | | Mountain whitefish | 342 | 400 | 8 | | | 0 | | |
| | | Mountain whitefish | 340 | 452 | 8 | | | 0 | | |
| | | Mountain whitefish | 441 | 994 | | | | 0 | | |
| | | Mountain whitefish | 365 | 592 | 8 | | | 0 | | |
| | | Mountain whitefish | 323 | 330 | 8 | | | 0 | | |
| | | Mountain whitefish | 321 | 364 | 8 | | | 0 | | |
| | | Mountain whitefish | 345 | 394 | 8 | | | 0 | | |
| | | Mountain whitefish | 430 | 968 | | | | 0 | | |
| | | Mountain whitefish | 371 | 596 | 8 | | | 0 | | |
| | | Mountain whitefish | 331 | 418 | | | | 0 | | |
| | ES0207 23/08/2001 | 61.0 | | | | | | | | |
| | | Largescale sucker | 467 | 1200 | | | | 0 | Yellow | 682 |
| | | Largescale sucker | 409 | 810 | | | | 0 | Yellow | 683 |
| | | Northern pike | 611 | 1632 | | Fin Ray | 6 | 0 | Yellow | 685 |
| | | Northern pike | 554 | 1232 | | Fin Ray | 5 | 0 | Yellow | 684 |
| | | Redside shiner | 91 | | | | | 0 | | |
| | | Yellow perch | 143 | | | Fin Ray | 3 | 0 | | |
| | | Yellow perch | 141 | 40 | | Fin Ray | 3 | 0 | | |
| | | Yellow perch | 167 | 62 | | Fin Ray | 4 | 0 | | |
| | | Yellow perch | 135 | 30 | | Fin Ray | 3 | 0 | | |
| | | Largescale sucker | 189 | 82 | | | | 0 | | |
| | | Largescale sucker | 154 | 44 | | | | 0 | | |
| | | Largescale sucker | 230 | 156 | | | | 0 | | |
| | | Largescale sucker | 151 | 38 | | | | 0 | | |
| | | Largescale sucker | 177 | | | | | 0 | | |
| | | Largescale sucker | 322 | 406 | | | | 0 | | |
| | | Northern pike | 269 | 130 | | Scale | 2 | 0 | Yellow | 1708 |
| | | Northern pike | 280 | 140 | | Scale | 2 | 0 | Yellow | 1705 |
| | | Northern pike | 272 | 122 | | Scale | 2 | 0 | Yellow | 1709 |
| | | White sucker | 192 | 88 | | | | 0 | | |
| | | White sucker | 292 | 310 | | | | 0 | | |

Appendix C Table C1. Life history data for fish sampled during Phase I of the Peace River Fish Community Indexing Program, 2001

| Area and Waterbody | Site Label Sample Date and Kilometre | Common Name | Fork Length (mm) | Weight (gm) | Sexual Maturity | Age Structure | Age | Capt. Code | Tag Colour | Tag Number |
|--------------------|--|--------------------|---------------------|----------------|--------------------|------------------|-----|---------------|---------------|---------------|
| Zone 2 Peace River | | | | | | | | | | |
| | ES0207 | 23/08/2001 | 61.0 | | | | | | | |
| | | White sucker | 172 | 60 | | | | 0 | | |
| | | White sucker | 250 | 214 | | | | 0 | | |
| | ES0208 | 24/08/2001 | 59.0 | | | | | | | |
| | | Arctic grayling | 348 | 468 | 20 | | | 0 | Yellow | 689 |
| | | Arctic grayling | 334 | 382 | | | | 0 | Yellow | 702 |
| | | Arctic grayling | 369 | 610 | 10 | | | 0 | Yellow | 703 |
| | | Arctic grayling | 151 | 38 | | | | 0 | | |
| | | Arctic grayling | 369 | 568 | 10 | | | 0 | Yellow | 696 |
| | | Arctic grayling | 269 | 210 | | | | 0 | Yellow | 704 |
| | | Largescale sucker | 450 | 1412 | | | | 0 | Yellow | 701 |
| | | Largescale sucker | 416 | 954 | | | | 0 | Yellow | 695 |
| | | Largescale sucker | 470 | 1246 | | | | 0 | Yellow | 686 |
| | | Longnose sucker | 420 | 780 | | | | 0 | Yellow | 698 |
| | | Longnose sucker | 378 | 694 | | | | 0 | Yellow | 692 |
| | | Longnose sucker | 434 | 1142 | | | | 0 | Yellow | 691 |
| | | Longnose sucker | 199 | 114 | | | | 0 | | |
| | | Longnose sucker | 170 | 52 | | | | 0 | | |
| | | Longnose sucker | 420 | 1034 | | | | 0 | Yellow | 687 |
| | | Longnose sucker | 357 | 596 | | | | 0 | | |
| | | Longnose sucker | 232 | 142 | | | | 0 | | |
| | | Mountain whitefish | 332 | 438 | | | | 0 | Yellow | 693 |
| | | Mountain whitefish | 311 | 350 | | | | 0 | Yellow | 688 |
| | | Mountain whitefish | 406 | 710 | | | | 0 | Yellow | 700 |
| | | Mountain whitefish | | | | | | 0 | | |
| | | Mountain whitefish | 87 | | | | | 0 | | |
| | | Mountain whitefish | 352 | 522 | | | | 0 | Yellow | 690 |
| | | Mountain whitefish | 396 | 708 | | | | 0 | Yellow | 699 |
| | | Mountain whitefish | 403 | 784 | | | | 0 | Yellow | 694 |
| | | Mountain whitefish | 360 | 548 | | | | 0 | Yellow | 697 |
| | | Arctic grayling | 116 | 24 | | | | 0 | | |
| | | Bull trout | 596 | 3300 | | | | 0 | Yellow | 1717 |
| | | Largescale sucker | 378 | 688 | | | | 0 | | |
| | | Longnose sucker | 427 | 982 | | | | 0 | Yellow | 1715 |
| | | Longnose sucker | 393 | | | | | 0 | Yellow | 1711 |
| | | Longnose sucker | 403 | 918 | | | | 0 | Yellow | 1710 |
| | | Mountain whitefish | 390 | 614 | | | | 0 | Yellow | 1712 |
| | | Mountain whitefish | 397 | 754 | | | | 0 | Yellow | 1713 |
| | | Mountain whitefish | 347 | 384 | 9 | | | 0 | | |
| | | Mountain whitefish | 314 | 316 | 8 | | | 0 | Yellow | 1714 |
| | | Mountain whitefish | 358 | 434 | | | | 0 | Yellow | 1716 |
| | ES0209 | 24/08/2001 | 57.0 | | | | | | | |
| | | Arctic grayling | 170 | 52 | | | | 0 | | |
| | | Longnose sucker | 383 | 724 | | | | 0 | Yellow | 706 |
| | | Longnose sucker | 387 | 736 | | | | 0 | Yellow | 707 |
| | | Longnose sucker | 397 | 808 | | | | 0 | Yellow | 708 |
| | | Longnose sucker | 360 | 620 | | | | 0 | Yellow | 709 |
| | | Longnose sucker | 346 | 498 | | | | 0 | Yellow | 710 |
| | | Longnose sucker | 463 | 1156 | | | | 0 | Yellow | 715 |
| | | Longnose sucker | 115 | 18 | | | | 0 | | |

Appendix C Table C1. Life history data for fish sampled during Phase I of the Peace River Fish Community Indexing Program, 2001

| Area and Waterbody | Site Label Sample Date and Kilometre | Common Name | Fork Length (mm) | Weight (gm) | Sexual Maturity | Age Structure | Age | Capt. Code | Tag Colour | Tag Number |
|--------------------|--|--------------------|---------------------|----------------|--------------------|------------------|-----|---------------|---------------|---------------|
| Zone 2 Peace River | | | | | | | | | | |
| | ES0209 24/08/2001 | 57.0 | | | | | | | | |
| | | Mountain whitefish | 199 | 92 | | | | 0 | | |
| | | Mountain whitefish | 423 | 830 | | | | 0 | Yellow | 711 |
| | | Arctic grayling | 122 | 20 | | | | 0 | | |
| | | Bull trout | 274 | 192 | | | | 0 | Yellow | 1755 |
| | | Longnose sucker | 443 | 1052 | | | | 0 | | |
| | | Longnose sucker | 147 | 36 | | | | 0 | | |
| | | Longnose sucker | 316 | 494 | | | | 0 | | |
| | | Longnose sucker | 442 | | | | | 0 | | |
| | | Mountain whitefish | 377 | 514 | | | | 0 | Yellow | 1754 |
| | | Mountain whitefish | 280 | 248 | | | | 0 | | |
| | | Mountain whitefish | 342 | | | | | 2 | Yellow | 1728 |
| | | Mountain whitefish | 399 | | | | | 2 | Yellow | 1713 |
| | | Rainbow trout | 361 | 638 | | | | 0 | Yellow | 1753 |
| | | Rainbow trout | 357 | 632 | | | | 0 | Yellow | 1756 |
| | ES0210 24/08/2001 | 55.6 | | | | | | | | |
| | | Bull trout | 452 | 870 | | Fin Ray | | 0 | Yellow | 731 |
| | | Largescale sucker | 564 | 2200 | | | | 0 | Yellow | 719 |
| | | Largescale sucker | 454 | 1108 | | | | 0 | Yellow | 718 |
| | | Largescale sucker | 157 | | | | | 0 | | |
| | | Largescale sucker | 435 | 1030 | | | | 0 | Yellow | 716 |
| | | Largescale sucker | 133 | 32 | | | | 0 | | |
| | | Longnose sucker | 167 | 50 | | | | 0 | | |
| | | Longnose sucker | 154 | 42 | | | | 0 | | |
| | | Longnose sucker | 392 | 890 | | | | 0 | Yellow | 714 |
| | | Longnose sucker | 422 | 1074 | | | | 0 | Yellow | 715 |
| | | Longnose sucker | 385 | 800 | | | | 0 | Yellow | 722 |
| | | Longnose sucker | 507 | | | | | 0 | Yellow | 717 |
| | | Longnose sucker | 93 | 8 | | | | 0 | | |
| | | Longnose sucker | 167 | 54 | | | | 0 | | |
| | | Mountain whitefish | 427 | 938 | | | | 0 | Yellow | 721 |
| | | Mountain whitefish | 267 | 216 | | | | 0 | Yellow | 737 |
| | | Mountain whitefish | 464 | 1190 | | | | 0 | Yellow | 720 |
| | | Mountain whitefish | 79 | | | | | 0 | | |
| | | Mountain whitefish | 288 | 248 | | | | 0 | Yellow | 723 |
| | | Mountain whitefish | 307 | 326 | | | | 0 | Yellow | 724 |
| | | Mountain whitefish | 192 | 64 | | | | 0 | | |
| | | Mountain whitefish | 347 | 510 | | | | 0 | Yellow | 726 |
| | | Mountain whitefish | 188 | 68 | | | | 0 | | |
| | | Mountain whitefish | 292 | 276 | | | | 0 | Yellow | 727 |
| | | Mountain whitefish | 406 | 720 | | | | 0 | Yellow | 728 |
| | | Mountain whitefish | 423 | 882 | | | | 0 | Yellow | 729 |
| | | Mountain whitefish | 368 | 664 | | | | 0 | Yellow | 730 |
| | | Mountain whitefish | 239 | 156 | | | | 0 | | |
| | | Mountain whitefish | 395 | | | | | 2 | Yellow | 667 |
| | | Mountain whitefish | 321 | 354 | | | | 0 | Yellow | 736 |
| | | Mountain whitefish | 396 | 584 | | | | 0 | Yellow | 725 |
| | | Mountain whitefish | 242 | 148 | | | | 0 | | |
| | | Mountain whitefish | 251 | 156 | | | | 0 | Yellow | 735 |
| | | Mountain whitefish | 305 | 312 | | | | 0 | Yellow | 734 |

Appendix C Table C1. Life history data for fish sampled during Phase I of the Peace River Fish Community Indexing Program, 2001

| Area and Waterbody | Site Label Sample Date and Kilometre | Common Name | Fork Length (mm) | Weight (gm) | Sexual Maturity | Age Structure | Age | Capt. Code | Tag Colour | Tag Number |
|--------------------|--|---------------------|---------------------|----------------|--------------------|------------------|-----|---------------|---------------|---------------|
| Zone 2 Peace River | | | | | | | | | | |
| | ES0210 24/08/2001 | 55.6 | | | | | | | | |
| | | Mountain whitefish | 213 | 92 | | | | 0 | | |
| | | Northern pike | 944 | 9000 | | Fin Ray | 9 | 0 | Yellow | 713 |
| | | Northern pike | 572 | 1374 | | Fin Ray | 5 | 0 | Yellow | 732 |
| | | Northern pike | 506 | 864 | | Fin Ray | 4 | 0 | Yellow | 733 |
| | | Arctic grayling | 297 | 352 | | | | 0 | Yellow | 1759 |
| | | Bull trout | 470 | 898 | | | | 0 | Yellow | 1760 |
| | | Kokanee | 171 | 46 | | | | 0 | | |
| | | Largescale sucker | 515 | 1628 | | | | 0 | | |
| | | Longnose sucker | 402 | 786 | | | | 0 | | |
| | | Longnose sucker | 485 | | | | | 0 | | |
| | | Longnose sucker | 460 | | | | | 0 | | |
| | | Longnose sucker | 490 | 1540 | | | | 0 | | |
| | | Longnose sucker | 484 | 1312 | | | | 0 | | |
| | | Longnose sucker | 318 | 412 | | | | 0 | | |
| | | Mountain whitefish | 393 | 786 | | | | 0 | Yellow | 1757 |
| | | Mountain whitefish | 145 | | | | | 0 | | |
| | | Mountain whitefish | 224 | 100 | | | | 0 | | |
| | | Mountain whitefish | 212 | | | | | 0 | | |
| | | Mountain whitefish | 318 | 358 | | | | 0 | Yellow | 1758 |
| | ES0211 24/08/2001 | 54.0 | | | | | | | | |
| | | Northern pike | 564 | 2500 | | Fin Ray | 5 | 0 | Yellow | 738 |
| | | Northern pike | 498 | | | Fin Ray | 4 | 0 | Yellow | 740 |
| | | Northern pike | 742 | 5500 | | Fin Ray | 9 | 0 | Yellow | 739 |
| | | Walleye | 331 | 410 | | Fin Ray | | 0 | Yellow | 743 |
| | | White sucker | 408 | 996 | | | | 0 | Yellow | 741 |
| | | White sucker | 397 | 952 | | | | 0 | Yellow | 742 |
| | | Largescale sucker | 176 | 52 | | | | 0 | | |
| | | Largescale sucker | 224 | 136 | | | | 0 | | |
| | | Longnose sucker | 520 | 1406 | | | | 0 | | |
| | | Northern pike | 444 | | | Scale | 4 | 0 | Yellow | 1761 |
| | | Northern pike | 321 | 210 | | Fin Ray | 3 | 0 | Yellow | 1762 |
| | ES0212 19/10/2001 | 53.0 | | | | | | | | |
| | | Largescale sucker | 570 | 2274 | | | | 0 | | |
| | | Largescale sucker | 494 | 1582 | | | | 0 | | |
| | | Largescale sucker | 472 | 1208 | | | | 0 | | |
| | | Largescale sucker | 450 | 1242 | | | | 0 | | |
| | | Largescale sucker | 567 | | | | | 0 | | |
| | | Longnose sucker | 361 | 638 | | | | 0 | | |
| | | Longnose sucker | 380 | | | | | 0 | | |
| | | Longnose sucker | 449 | 1224 | | | | 0 | | |
| | | Longnose sucker | 461 | | | | | 0 | | |
| | | Mountain whitefish | 321 | 472 | | 8 | | 0 | | |
| | | Northern pike | 609 | 1662 | | Fin Ray | 6 | 0 | Yellow | 1765 |
| | | Northern pike | 445 | 598 | | Scale | 4 | 0 | Yellow | 1764 |
| | | Northern pikeminnow | 406 | 788 | | | | 0 | Yellow | 1763 |
| | ES0213 24/08/2001 | 51.0 | | | | | | | | |
| | | Longnose sucker | 414 | 862 | | | | 0 | Yellow | 748 |
| | | Longnose sucker | 416 | 904 | | | | 0 | Yellow | 750 |
| | | Longnose sucker | 444 | 1138 | | | | 0 | Yellow | 747 |

Appendix C Table C1. Life history data for fish sampled during Phase I of the Peace River Fish Community Indexing Program, 2001

| Area and Waterbody | Site Label Sample Date and Kilometre | Common Name | Fork Length (mm) | Weight (gm) | Sexual Maturity | Age Structure | Age | Capt. Code | Tag Colour | Tag Number |
|--------------------|--------------------------------------|--------------------|------------------|-------------|-----------------|---------------|-----|------------|------------|------------|
| Zone 2 | Peace River | | | | | | | | | |
| | ES0213 24/08/2001 | 51.0 | | | | | | | | |
| | | Longnose sucker | 409 | 864 | | | | 0 | Yellow | 749 |
| | | Longnose sucker | 438 | 1252 | | | | 0 | Yellow | 754 |
| | | Longnose sucker | 414 | 762 | | | | 0 | Yellow | 753 |
| | | Mountain whitefish | 374 | 666 | | | | 0 | Yellow | 751 |
| | | Mountain whitefish | 144 | 28 | | | | 0 | | |
| | | Mountain whitefish | 457 | 1268 | | | | 0 | Yellow | 746 |
| | | Mountain whitefish | 195 | 72 | | | | 0 | | |
| | | Mountain whitefish | 412 | 800 | | | | 0 | Yellow | 745 |
| | | Mountain whitefish | 252 | 168 | | | | 0 | Yellow | 752 |
| | | Mountain whitefish | 259 | 188 | | | | 0 | Yellow | 756 |
| | | Mountain whitefish | 250 | 160 | | | | 0 | Yellow | 755 |
| | | Mountain whitefish | 330 | 456 | | | | 0 | Yellow | 744 |
| | | Mountain whitefish | 254 | 160 | | | | 0 | Yellow | 757 |
| | | Mountain whitefish | 187 | 58 | | | | 0 | | |
| | | Mountain whitefish | 260 | 182 | | | | 0 | Yellow | 758 |
| | | Mountain whitefish | 140 | 18 | | | | 0 | | |
| | | Arctic grayling | 210 | 120 | | | | 0 | | |
| | | Longnose sucker | 400 | 778 | | | | 0 | Yellow | 1768 |
| | | Longnose sucker | 427 | 1202 | | | | 0 | Yellow | 1769 |
| | | Longnose sucker | 382 | 730 | | | | 0 | Yellow | 1767 |
| | | Longnose sucker | 383 | 760 | | | | 0 | Yellow | 1770 |
| | | Longnose sucker | 447 | | | | | 0 | Yellow | 1771 |
| | | Longnose sucker | 270 | 234 | | | | 0 | Yellow | 1766 |
| | | Mountain whitefish | 189 | | | | | 0 | | |
| | | Mountain whitefish | 104 | | | | | 0 | | |
| | | Mountain whitefish | 212 | | | | | 0 | | |
| | ES0214 24/08/2001 | 50.0 | | | | | | | | |
| | | Largescale sucker | 491 | 1538 | | | | 0 | Yellow | 761 |
| | | Largescale sucker | 454 | 1382 | | | | 0 | Yellow | 759 |
| | | Largescale sucker | 169 | 58 | | | | 0 | | |
| | | Largescale sucker | 489 | 1578 | | | | 0 | Yellow | 762 |
| | | Largescale sucker | 121 | 20 | | | | 0 | | |
| | | Largescale sucker | 470 | 1366 | | | | 0 | Yellow | 763 |
| | | Longnose sucker | 136 | 34 | | | | 0 | | |
| | | Longnose sucker | 460 | | | | | 0 | Yellow | 760 |
| | | Longnose sucker | 138 | 36 | | | | 0 | | |
| | | Longnose sucker | 97 | | | | | 0 | | |
| | | Longnose sucker | 172 | 62 | | | | 0 | | |
| | | Longnose sucker | 146 | 30 | | | | 0 | | |
| | | Longnose sucker | 207 | 108 | | | | 0 | | |
| | | Mountain whitefish | 182 | 54 | | | | 0 | | |
| | | Mountain whitefish | 173 | 50 | | | | 0 | | |
| | | Mountain whitefish | 466 | 1068 | | | | 0 | | |
| | | Mountain whitefish | 369 | 588 | | | | 0 | Yellow | 764 |
| | | Mountain whitefish | 138 | 20 | | | | 0 | | |
| | | Mountain whitefish | 154 | 26 | | | | 0 | | |
| | | Mountain whitefish | 130 | 20 | | | | 0 | | |
| | | Mountain whitefish | 413 | 934 | | | | 2 | Orange | 8844 |
| | | Arctic grayling | 121 | | | | | 0 | | |

Appendix C Table C1. Life history data for fish sampled during Phase I of the Peace River Fish Community Indexing Program, 2001

| Area and Waterbody | Site Label Sample Date and Kilometre | Common Name | Fork Length (mm) | Weight (gm) | Sexual Maturity | Age Structure | Age | Capt. Code | Tag Colour | Tag Number |
|--------------------|--|--------------------|---------------------|----------------|--------------------|------------------|-----|---------------|---------------|---------------|
| Zone 2 Peace River | | | | | | | | | | |
| | ES0214 24/08/2001 | 50.0 | | | | | | | | |
| | | Arctic grayling | 133 | | | | | 0 | | |
| | | Largescale sucker | 366 | | | | | 0 | | |
| | | Largescale sucker | 509 | | | | | 0 | | |
| | | Largescale sucker | 516 | | | | | 0 | | |
| | | Largescale sucker | 494 | | | | | 0 | | |
| | | Largescale sucker | 357 | | | | | 0 | | |
| | | Longnose sucker | 455 | | | | | 0 | | |
| | | Longnose sucker | 427 | | | | | 0 | | |
| | | Longnose sucker | 414 | | | | | 0 | | |
| | | Longnose sucker | 398 | | | | | 0 | | |
| | | Longnose sucker | 434 | | | | | 0 | | |
| | | Longnose sucker | 383 | | | | | 0 | | |
| | | Longnose sucker | 348 | | | | | 0 | | |
| | | Longnose sucker | 405 | | | | | 0 | | |
| | | Longnose sucker | 395 | | | | | 0 | | |
| | | Longnose sucker | 454 | | | | | 0 | | |
| | | Longnose sucker | 414 | | | | | 0 | | |
| | | Longnose sucker | 471 | | | | | 0 | | |
| | | Longnose sucker | 434 | | | | | 0 | | |
| | | Longnose sucker | 445 | | | | | 0 | | |
| | | Longnose sucker | 446 | | | | | 0 | | |
| | | Mountain whitefish | 150 | | | | | 0 | | |
| | | Mountain whitefish | 198 | | | | | 0 | | |
| | | Mountain whitefish | 357 | | | | | 0 | | |
| | | White sucker | 398 | | | | | 0 | | |
| | ES0215 19/10/2001 | 48.0 | | | | | | | | |
| | | Mountain whitefish | 353 | | | | | 0 | | |
| | | Mountain whitefish | 188 | | | | | 0 | | |
| | | Mountain whitefish | 379 | | | | | 0 | | |
| | | Mountain whitefish | 390 | | | | | 0 | | |
| | ES0216 23/08/2001 | 69.2 | | | | | | | | |
| | | Arctic grayling | 284 | 254 | | | | 0 | Yellow | 605 |
| | | Mountain whitefish | 370 | 654 | | | | 0 | Yellow | 591 |
| | | Mountain whitefish | 366 | 620 | | | | 0 | Yellow | 594 |
| | | Mountain whitefish | 378 | 664 | | | | 0 | Yellow | 595 |
| | | Mountain whitefish | 407 | 804 | | | | 0 | Yellow | 597 |
| | | Mountain whitefish | 442 | 868 | | | | 0 | Yellow | 598 |
| | | Mountain whitefish | 206 | 94 | | | | 0 | | |
| | | Mountain whitefish | 445 | 992 | | | | 0 | Yellow | 602 |
| | | Mountain whitefish | 363 | | | | | 0 | Yellow | 599 |
| | | Mountain whitefish | 308 | 306 | | | | 0 | Yellow | 593 |
| | | Mountain whitefish | 176 | 58 | | | | 0 | | |
| | | Mountain whitefish | 443 | 1068 | | | | 0 | Yellow | 601 |
| | | Mountain whitefish | 279 | 220 | | | | 0 | Yellow | 596 |
| | | Mountain whitefish | 192 | 64 | | | | 0 | | |
| | | Mountain whitefish | 391 | 692 | | | | 0 | Yellow | 592 |
| | | Mountain whitefish | 358 | 560 | | | | 0 | Yellow | 600 |
| | | Mountain whitefish | 371 | 572 | | | | 0 | | |
| | | Mountain whitefish | 203 | 80 | | | | 0 | | |

Appendix C Table C1. Life history data for fish sampled during Phase I of the Peace River Fish Community Indexing Program, 2001

| Area and Waterbody | Site Label Sample Date and Kilometre | Common Name | Fork Length (mm) | Weight (gm) | Sexual Maturity | Age Structure | Age | Capt. Code | Tag Colour | Tag Number |
|--------------------|--|--------------------|---------------------|----------------|--------------------|------------------|-----|---------------|---------------|---------------|
| Zone 2 Peace River | | | | | | | | | | |
| | ES0216 23/08/2001 | 69.2 | | | | | | | | |
| | | Mountain whitefish | 202 | 76 | | | | 0 | | |
| | | Mountain whitefish | 203 | 86 | | | | 0 | | |
| | | Mountain whitefish | 281 | 240 | | | | 0 | Yellow | 604 |
| | | Mountain whitefish | 318 | 418 | | | | 0 | Yellow | 603 |
| | | Mountain whitefish | 192 | 66 | | | | 0 | | |
| | | Mountain whitefish | 207 | 84 | | | | 0 | | |
| | | Mountain whitefish | 198 | 72 | | | | 0 | | |
| | | Arctic grayling | 295 | 310 | | | | 0 | Yellow | 1824 |
| | | Arctic grayling | 171 | 58 | | | | 0 | | |
| | | Arctic grayling | 215 | 94 | | | | 0 | | |
| | | Arctic grayling | 242 | 168 | | | | 0 | | |
| | | Arctic grayling | 204 | 94 | | | | 0 | | |
| | | Arctic grayling | 283 | 234 | | | | 0 | Yellow | 1826 |
| | | Arctic grayling | 195 | 90 | | | | 0 | | |
| | | Arctic grayling | 244 | 186 | | | | 0 | | |
| | | Arctic grayling | 196 | 76 | | | | 0 | | |
| | | Arctic grayling | 190 | 76 | | | | 0 | | |
| | | Arctic grayling | 253 | 218 | | | | 0 | Yellow | 1831 |
| | | Arctic grayling | 313 | 388 | | | | 0 | Yellow | 1818 |
| | | Arctic grayling | 145 | 12 | | | | 0 | | |
| | | Arctic grayling | 390 | 670 | | | | 0 | | |
| | | Arctic grayling | 351 | 588 | | | | 0 | Yellow | 1825 |
| | | Arctic grayling | 323 | 424 | | | | 0 | Yellow | 1819 |
| | | Arctic grayling | 296 | 264 | | | | 2 | Yellow | 605 |
| | | Bull trout | 395 | 556 | | | | 0 | Yellow | 1839 |
| | | Bull trout | 246 | 148 | | Fin Ray | 3 | 0 | | |
| | | Longnose sucker | 350 | 562 | | | | 0 | Yellow | 1838 |
| | | Longnose sucker | 403 | 802 | | | | 0 | Yellow | 1822 |
| | | Longnose sucker | 488 | | | | | 0 | | |
| | | Longnose sucker | 352 | 614 | | | | 0 | Yellow | 1827 |
| | | Longnose sucker | 448 | 1042 | | | | 0 | Yellow | 1828 |
| | | Longnose sucker | 353 | 608 | | | | 0 | Yellow | 1832 |
| | | Longnose sucker | 346 | 452 | | | | 0 | Yellow | 1820 |
| | | Longnose sucker | 351 | 580 | | | | 0 | Yellow | 1840 |
| | | Mountain whitefish | 211 | 100 | | | | 0 | | |
| | | Mountain whitefish | 326 | 388 | | | | 0 | Yellow | 1833 |
| | | Mountain whitefish | 358 | 502 | | | | 0 | Yellow | 1834 |
| | | Mountain whitefish | 157 | 34 | | | | 0 | | |
| | | Mountain whitefish | 292 | 220 | | | | 0 | Yellow | 1835 |
| | | Mountain whitefish | 267 | 224 | | | | 0 | Yellow | 1836 |
| | | Mountain whitefish | 371 | 528 | | | | 0 | Yellow | 1837 |
| | | Mountain whitefish | 271 | 210 | | | | 0 | Yellow | 1841 |
| | | Mountain whitefish | 212 | 98 | | | | 0 | | |
| | | Mountain whitefish | 304 | 348 | | | | 0 | Yellow | 1842 |
| | | Mountain whitefish | 183 | 74 | | | | 0 | | |
| | | Mountain whitefish | 207 | 84 | | | | 0 | | |
| | | Mountain whitefish | 426 | | | | | 0 | | 1829 |
| | | Mountain whitefish | 431 | 886 | | | | 0 | Yellow | 1821 |
| | | Mountain whitefish | 358 | 630 | | | | 0 | Yellow | 1823 |

Appendix C Table C1. Life history data for fish sampled during Phase I of the Peace River Fish Community Indexing Program, 2001

| Area and Waterbody | Site Label Sample Date and Kilometre | Common Name | Fork Length (mm) | Weight (gm) | Sexual Maturity | Age Structure | Age | Capt. Code | Tag Colour | Tag Number |
|--------------------|--|--------------------|---------------------|----------------|--------------------|------------------|-----|---------------|---------------|---------------|
| Zone 2 Peace River | | | | | | | | | | |
| | ES0216 23/08/2001 | 69.2 | | | | | | | | |
| | | Mountain whitefish | 386 | 628 | 8 | | | 0 | Yellow | 1830 |
| | | Mountain whitefish | 357 | 516 | | | | 0 | Yellow | 1843 |
| | ES0217 24/08/2001 | 58.0 | | | | | | | | |
| | | Longnose sucker | 161 | 56 | | | | 0 | | |
| | | Longnose sucker | | | | | | 0 | | |
| | | Longnose sucker | 259 | 224 | | | | 0 | | |
| | | Mountain whitefish | 123 | 22 | | | | 0 | | |
| | | Mountain whitefish | 131 | 22 | | | | 0 | | |
| | | Mountain whitefish | 352 | 476 | | | | 0 | Yellow | 705 |
| | | Mountain whitefish | 141 | 28 | | | | 0 | | |
| | | Mountain whitefish | 198 | 76 | | | | 0 | | |
| | | Redside shiner | 96 | | | | | 0 | | |
| | | Arctic grayling | 411 | 902 | | | | 0 | Yellow | 1718 |
| | | Arctic grayling | 377 | 638 | | | | 2 | Yellow | 696 |
| | | Arctic grayling | 127 | 20 | | | | 0 | | |
| | | Bull trout | 339 | 356 | | | | 0 | | |
| | | Kokanee | 160 | 42 | | | | 0 | | |
| | | Largescale sucker | 471 | 1248 | | | | 0 | Yellow | 1719 |
| | | Largescale sucker | 498 | 1650 | | | | 0 | Yellow | 1720 |
| | | Longnose sucker | 127 | 26 | | | | 0 | | |
| | | Mountain whitefish | 320 | | 8 | | | 0 | Yellow | 1725 |
| | | Mountain whitefish | 325 | 346 | | | | 0 | Yellow | 1734 |
| | | Mountain whitefish | 336 | | 8 | | | 0 | Yellow | 1736 |
| | | Mountain whitefish | 404 | 628 | 18 | | | 0 | Yellow | 1733 |
| | | Mountain whitefish | 320 | 370 | 8 | | | 0 | Yellow | 1730 |
| | | Mountain whitefish | 332 | 440 | 8 | | | 0 | Yellow | 1731 |
| | | Mountain whitefish | 338 | 430 | 8 | | | 0 | Yellow | 1729 |
| | | Mountain whitefish | 324 | 334 | 8 | | | 0 | Yellow | 1737 |
| | | Mountain whitefish | 457 | 1044 | 18 | | | 0 | Yellow | 1735 |
| | | Mountain whitefish | 217 | 130 | | | | 0 | | |
| | | Mountain whitefish | 339 | 462 | 8 | | | 0 | Yellow | 1745 |
| | | Mountain whitefish | 254 | 196 | 8 | | | 0 | Yellow | 1739 |
| | | Mountain whitefish | 273 | 248 | 8 | | | 0 | Yellow | 1741 |
| | | Mountain whitefish | 270 | 206 | | | | 0 | Yellow | 1742 |
| | | Mountain whitefish | 328 | 396 | 8 | | | 0 | Yellow | 1744 |
| | | Mountain whitefish | 330 | 432 | 8 | | | 0 | Yellow | 1743 |
| | | Mountain whitefish | 326 | 420 | 8 | | | 0 | Yellow | 1740 |
| | | Mountain whitefish | 358 | 514 | 8 | | | 0 | Yellow | 1746 |
| | | Mountain whitefish | 354 | | 8 | | | 0 | | |
| | | Mountain whitefish | 338 | 454 | 8 | | | 0 | Yellow | 1738 |
| | | Mountain whitefish | 344 | 436 | 8 | | | 0 | Yellow | 1727 |
| | | Mountain whitefish | 380 | 646 | 8 | | | 0 | Yellow | 1732 |
| | | Mountain whitefish | 331 | 450 | 8 | | | 0 | Yellow | 1749 |
| | | Mountain whitefish | 352 | 474 | 8 | | | 0 | Yellow | 1750 |
| | | Mountain whitefish | 335 | 374 | 8 | | | 0 | Yellow | 1751 |
| | | Mountain whitefish | 409 | 692 | 18 | | | 0 | Yellow | 1752 |
| | | Mountain whitefish | 266 | 214 | | | | 0 | Yellow | 1747 |
| | | Mountain whitefish | 343 | 460 | | | | 0 | Yellow | 1728 |
| | | Mountain whitefish | 333 | 394 | 8 | | | 0 | Yellow | 1722 |

Appendix C Table C1. Life history data for fish sampled during Phase I of the Peace River Fish Community Indexing Program, 2001

| Area and Waterbody | Site Label Sample Date and Kilometre | Common Name | Fork Length (mm) | Weight (gm) | Sexual Maturity | Age Structure | Age | Capt. Code | Tag Colour | Tag Number |
|----------------------|--|---------------------|---------------------|----------------|--------------------|------------------|-----|---------------|---------------|---------------|
| Zone 2 Peace River | | | | | | | | | | |
| | ES0217 24/08/2001 | 58.0 | | | | | | | | |
| | | Mountain whitefish | 367 | 580 | | 8 | | 0 | | |
| | | Mountain whitefish | 312 | | | | | 0 | | |
| | | Mountain whitefish | 303 | 324 | | 8 | | 0 | Yellow | 1721 |
| | | Mountain whitefish | 468 | 1382 | | 18 | | 0 | Yellow | 1723 |
| | | Mountain whitefish | 362 | 486 | | 8 | | 0 | Yellow | 1724 |
| | | Mountain whitefish | 295 | 312 | | | | 0 | Yellow | 1748 |
| | | Mountain whitefish | 373 | 600 | | 8 | | 0 | Yellow | 1726 |
| | | Redside shiner | 88 | | | | | 0 | | |
| Zone 3 Halfway River | | | | | | | | | | |
| | BS0301 22/08/2001 | 104.0 | | | | | | | | |
| | | Lake chub | 74 | | | | | 0 | | |
| | | Lake chub | 63 | | | | | 0 | | |
| | | Lake chub | 74 | | | | | 0 | | |
| | | Lake chub | 70 | | | | | 0 | | |
| | | Largescale sucker | 302 | | | | | 0 | | |
| | | Largescale sucker | 105 | | | | | 0 | | |
| | | Northern pikeminnow | 160 | | | | | 0 | | |
| | | Northern pikeminnow | 115 | | | | | 0 | | |
| | | Northern pikeminnow | 264 | | | | | 0 | | |
| | | Redside shiner | 79 | | | | | 0 | | |
| | | Redside shiner | 104 | | | | | 0 | | |
| | | Redside shiner | 61 | | | | | 0 | | |
| | | Redside shiner | 67 | | | | | 0 | | |
| | | Redside shiner | 63 | | | | | 0 | | |
| | | Redside shiner | 58 | | | | | 0 | | |
| | | Redside shiner | 65 | | | | | 0 | | |
| | | Redside shiner | 66 | | | | | 0 | | |
| | | Redside shiner | 102 | | | | | 0 | | |
| | | Redside shiner | 114 | | | | | 0 | | |
| | | Redside shiner | 116 | | | | | 0 | | |
| | | Redside shiner | 69 | | | | | 0 | | |
| | | Redside shiner | 63 | | | | | 0 | | |
| | | Redside shiner | 64 | | | | | 0 | | |
| | | Redside shiner | 74 | | | | | 0 | | |
| | | Redside shiner | 84 | | | | | 0 | | |
| | | Redside shiner | 102 | | | | | 0 | | |
| | | Redside shiner | 84 | | | | | 0 | | |
| | | Redside shiner | 91 | | | | | 0 | | |
| | | Redside shiner | 94 | | | | | 0 | | |
| | | Redside shiner | 92 | | | | | 0 | | |
| | | Redside shiner | 61 | | | | | 0 | | |
| | | Redside shiner | 63 | | | | | 0 | | |
| | | Redside shiner | 60 | | | | | 0 | | |
| | | Redside shiner | 94 | | | | | 0 | | |
| | | Redside shiner | 104 | | | | | 0 | | |
| | | Redside shiner | 54 | | | | | 0 | | |
| | | Redside shiner | 121 | | | | | 0 | | |
| | | Redside shiner | 89 | | | | | 0 | | |
| | | Redside shiner | 76 | | | | | 0 | | |

Appendix C Table C1. Life history data for fish sampled during Phase I of the Peace River Fish Community Indexing Program, 2001

| Area and Waterbody | Site Label Sample Date and Kilometre | Common Name | Fork Length (mm) | Weight (gm) | Sexual Maturity | Age Structure | Age | Capt. Code | Tag Colour | Tag Number |
|----------------------|--|--------------------|---------------------|----------------|--------------------|------------------|-----|---------------|---------------|---------------|
| Zone 3 Halfway River | | | | | | | | | | |
| | BS0301 | 22/08/2001 | 104.0 | | | | | | | |
| | | Redside shiner | 88 | | | | | 0 | | |
| | | Redside shiner | 88 | | | | | 0 | | |
| | | Redside shiner | 89 | | | | | 0 | | |
| | | Redside shiner | 64 | | | | | 0 | | |
| | | Redside shiner | 99 | | | | | 0 | | |
| | | Redside shiner | 61 | | | | | 0 | | |
| | | Redside shiner | 69 | | | | | 0 | | |
| | | Redside shiner | 99 | | | | | 0 | | |
| | | Redside shiner | 82 | | | | | 0 | | |
| | | Redside shiner | 64 | | | | | 0 | | |
| | | Spottail shiner | 72 | | | | | 0 | | |
| | BS0302 | 22/08/2001 | 106.9 | | | | | | | |
| | | Mountain whitefish | 50 | | | | | 0 | | |
| | | Sucker spp. | 29 | | | | | 0 | | |
| | | Largescale sucker | 39 | | | | | 4 | | |
| | | Largescale sucker | 35 | | | | | 4 | | |
| | | Largescale sucker | 38 | | | | | 4 | | |
| | | Longnose sucker | 38 | | | | | 4 | | |
| | | Longnose sucker | 38 | | | | | 4 | | |
| | | Longnose sucker | 31 | | | | | 4 | | |
| | BS0304 | 22/08/2001 | 99.0 | | | | | | | |
| | | Sucker spp. | 22 | | | | | 0 | | |
| | | Sucker spp. | 21 | | | | | 0 | | |
| | | Sucker spp. | 16 | | | | | 0 | | |
| | | Arctic grayling | 49 | | | | | 0 | | |
| | | Redside shiner | 72 | | | | | 0 | | |
| | | Spoonhead sculpin | 38 | | | | | 0 | | |
| | BS0310 | 22/08/2001 | 103.4 | | | | | | | |
| | | Spottail shiner | 48 | | | | | 0 | | |
| | BS0311 | 17/10/2001 | 87.2 | | | | | | | |
| | | Redside shiner | 25 | | | | | 0 | | |
| | EF0301 | 22/08/2001 | 107.1 | | | | | | | |
| | | Lake chub | 73 | | | | | 0 | | |
| | | Lake chub | 31 | | | | | 0 | | |
| | | Prickly sculpin | 66 | | | | | 0 | | |
| | | Prickly sculpin | 69 | | | | | 0 | | |
| | | Prickly sculpin | 51 | | | | | 0 | | |
| | | Prickly sculpin | 52 | | | | | 0 | | |
| | | Sculpin spp. | 19 | | | | | 0 | | |
| | | Slimy sculpin | 54 | | | | | 0 | | |
| | | Slimy sculpin | 49 | | | | | 4 | | |
| | | Slimy sculpin | 50 | | | | | 0 | | |
| | | Slimy sculpin | 51 | | | | | 0 | | |
| | | Slimy sculpin | 55 | | | | | 0 | | |
| | EF0302 | 22/08/2001 | 87.2 | | | | | | | |
| | | Lake chub | 78 | | | | | 0 | | |
| | | Lake chub | 70 | | | | | 0 | | |
| | | Lake chub | 66 | | | | | 0 | | |
| | | Largescale sucker | 143 | | | | | 0 | | |

Appendix C Table C1. Life history data for fish sampled during Phase I of the Peace River Fish Community Indexing Program, 2001

| Area and Waterbody | Site Label Sample Date and Kilometre | Common Name | Fork Length (mm) | Weight (gm) | Sexual Maturity | Age Structure | Age | Capt. Code | Tag Colour | Tag Number |
|--------------------|--|---------------------|---------------------|----------------|--------------------|------------------|-----|---------------|---------------|---------------|
| Zone 3 | Halfway River | | | | | | | | | |
| | EF0302 22/08/2001 | 87.2 | | | | | | | | |
| | | Largescale sucker | 159 | | | | | 0 | | |
| | | Largescale sucker | 138 | | | | | 0 | | |
| | | Largescale sucker | 320 | | | | | 0 | | |
| | | Longnose dace | 68 | | | | | 0 | | |
| | | Longnose dace | 81 | | | | | 0 | | |
| | | Longnose dace | 76 | | | | | 0 | | |
| | | Longnose sucker | 187 | | | | | 0 | | |
| | | Longnose sucker | 83 | | | | | 0 | | |
| | | Longnose sucker | 150 | | | | | 0 | | |
| | | Longnose sucker | 148 | | | | | 0 | | |
| | | Longnose sucker | 188 | | | | | 0 | | |
| | | Longnose sucker | 171 | | | | | 0 | | |
| | | Longnose sucker | 90 | | | | | 0 | | |
| | | Longnose sucker | 96 | | | | | 0 | | |
| | | Longnose sucker | 85 | | | | | 0 | | |
| | | Longnose sucker | 119 | | | | | 0 | | |
| | | Longnose sucker | 176 | | | | | 0 | | |
| | | Northern pike | 585 | | | Fin Ray | 5 | 0 | Yellow | 590 |
| | | Northern pikeminnow | 224 | | | | | 0 | | |
| | | Northern pikeminnow | 205 | | | | | 0 | | |
| | | Northern pikeminnow | 216 | | | | | 0 | | |
| | | Northern pikeminnow | 194 | | | | | 0 | | |
| | | Northern pikeminnow | 225 | | | | | 0 | | |
| | | Northern pikeminnow | 231 | | | | | 0 | | |
| | | Northern pikeminnow | 203 | | | | | 0 | | |
| | | Peamouth | 159 | | | | | 0 | | |
| | | Redside shiner | 81 | | | | | 0 | | |
| | | Redside shiner | 67 | | | | | 0 | | |
| | | Redside shiner | 85 | | | | | 0 | | |
| | | Redside shiner | 102 | | | | | 0 | | |
| | | Redside shiner | 76 | | | | | 0 | | |
| | | Redside shiner | 91 | | | | | 0 | | |
| | | Redside shiner | 88 | | | | | 0 | | |
| | | Redside shiner | 83 | | | | | 0 | | |
| | | Spottail shiner | 78 | | | | | 0 | | |
| | | Spottail shiner | 82 | | | | | 0 | | |
| | | Spottail shiner | 62 | | | | | 0 | | |
| | | Spottail shiner | 64 | | | | | 0 | | |
| | | Kokanee | 71 | | | | | 0 | | |
| | ES0301 20/08/2001 | 98.0 | | | | | | | | |
| | | Arctic grayling | 299 | 322 | 10 | | | 0 | Yellow | 317 |
| | | Arctic grayling | 337 | 470 | 10 | | | 0 | Yellow | 318 |
| | | Arctic grayling | 306 | 338 | 10 | | | 0 | Yellow | 319 |
| | | Arctic grayling | 308 | 350 | 20 | | | 0 | Yellow | 320 |
| | | Arctic grayling | 301 | 310 | 10 | | | 0 | Yellow | 322 |
| | | Arctic grayling | 187 | 78 | | | | 0 | | |
| | | Mountain whitefish | 177 | 60 | | | | 0 | | |
| | | Mountain whitefish | 138 | 26 | | | | 0 | | |
| | | Mountain whitefish | 201 | 94 | | | | 0 | | |

Appendix C Table C1. Life history data for fish sampled during Phase I of the Peace River Fish Community Indexing Program, 2001

| Area and Waterbody | Site Label Sample Date and Kilometre | Common Name | Fork Length (mm) | Weight (gm) | Sexual Maturity | Age Structure | Age | Capt. Code | Tag Colour | Tag Number |
|--------------------|--|--------------------|---------------------|----------------|--------------------|------------------|-----|---------------|---------------|---------------|
| Zone 3 | Halfway River | | | | | | | | | |
| | ES0301 20/08/2001 | 98.0 | | | | | | | | |
| | | Mountain whitefish | 253 | 194 | | | | 0 | Yellow | 325 |
| | | Mountain whitefish | 210 | 90 | | | | 0 | | |
| | | Mountain whitefish | 315 | 292 | | | | 0 | Yellow | 321 |
| | | Mountain whitefish | 248 | 158 | | | | 0 | | |
| | | Mountain whitefish | 268 | 206 | | | | 0 | Yellow | 327 |
| | | Mountain whitefish | 262 | 198 | | | | 0 | Yellow | 326 |
| | | Mountain whitefish | 206 | 94 | | | | 0 | | |
| | | Mountain whitefish | 339 | 384 | | | | 0 | | |
| | | Mountain whitefish | 199 | 70 | | | | 0 | | |
| | | Mountain whitefish | 69 | | | | | 0 | | |
| | | Mountain whitefish | 263 | 176 | | | | 0 | Yellow | 323 |
| | | Mountain whitefish | 243 | 140 | | | | 0 | | |
| | | Mountain whitefish | 254 | 200 | | | | 0 | Yellow | 328 |
| | | Mountain whitefish | 242 | 146 | | | | 0 | | |
| | | Rainbow trout | 196 | 82 | | | | 0 | | |
| | | Arctic grayling | 343 | 452 | | | | 0 | Yellow | 1573 |
| | | Arctic grayling | 382 | | | | | 0 | Yellow | 1574 |
| | | Arctic grayling | 365 | 602 | | | | 0 | Yellow | 1569 |
| | | Bull trout | 380 | 630 | | Fin Ray | 4 | 0 | Yellow | 1565 |
| | | Bull trout | 418 | 696 | | Fin Ray | 4 | 0 | Yellow | 1567 |
| | | Longnose sucker | 389 | | | | | 0 | Yellow | 1559 |
| | | Mountain whitefish | 346 | | | | | 0 | Yellow | 1562 |
| | | Mountain whitefish | 326 | | | | | 0 | | |
| | | Mountain whitefish | 338 | | | | | 0 | Yellow | 1560 |
| | | Mountain whitefish | 335 | | | | | 0 | Yellow | 1566 |
| | | Mountain whitefish | 274 | | | | | 0 | | |
| | | Mountain whitefish | 284 | | | | | 0 | Yellow | 1568 |
| | | Mountain whitefish | 329 | | | | | 0 | | |
| | | Mountain whitefish | 357 | | | | | 0 | | |
| | | Mountain whitefish | 198 | 78 | | | | 0 | | |
| | | Mountain whitefish | 319 | | | | | 0 | | |
| | | Mountain whitefish | 318 | | | | | 0 | Yellow | 1570 |
| | | Mountain whitefish | 222 | 114 | | | | 0 | | |
| | | Mountain whitefish | 331 | | | | | 0 | | |
| | | Mountain whitefish | 316 | | | | | 0 | | |
| | | Mountain whitefish | 315 | | | | | 0 | Yellow | 1558 |
| | | Mountain whitefish | 333 | | | | | 0 | | |
| | | Mountain whitefish | 345 | | | | | 0 | Yellow | 1571 |
| | | Mountain whitefish | 336 | | | | | 0 | Yellow | 1563 |
| | | Mountain whitefish | 254 | | | | | 0 | Yellow | 1561 |
| | | Mountain whitefish | 135 | | | | | 0 | | |
| | | Mountain whitefish | 323 | | | | | 0 | Yellow | 1564 |
| | | Mountain whitefish | 200 | | | | | 0 | | |
| | | Mountain whitefish | 307 | | | | | 0 | Yellow | 1575 |
| | | Mountain whitefish | 365 | | | | | 0 | Yellow | 1572 |
| | | Mountain whitefish | 142 | 32 | | | | 0 | | |
| | | Rainbow trout | 402 | 756 | | | | 0 | | |
| | | Rainbow trout | 159 | 52 | | | | 0 | | |
| | ES0302 20/08/2001 | 95.0 | | | | | | | | |

Appendix C Table C1. Life history data for fish sampled during Phase I of the Peace River Fish Community Indexing Program, 2001

| Area and Waterbody | Site Label Sample Date and Kilometre | Common Name | Fork Length (mm) | Weight (gm) | Sexual Maturity | Age Structure | Age | Capt. Code | Tag Colour | Tag Number |
|--------------------|--|--------------------|---------------------|----------------|--------------------|------------------|-----|---------------|---------------|---------------|
| Zone 3 | Halfway River | | | | | | | | | |
| | ES0302 20/08/2001 | 95.0 | | | | | | | | |
| | | Bull trout | 300 | 256 | | Fin Ray | | 0 | Yellow | 352 |
| | | Largescale sucker | 428 | 1038 | | Fin Ray | 11 | 0 | Yellow | 329 |
| | | Largescale sucker | 461 | 1304 | | Fin Ray | 13 | 0 | | |
| | | Largescale sucker | 457 | 1228 | | Fin Ray | 10 | 0 | | |
| | | Largescale sucker | 192 | 74 | | Fin Ray | 3 | 0 | | |
| | | Largescale sucker | 139 | 44 | | Fin Ray | | 0 | | |
| | | Largescale sucker | 441 | 1174 | | Fin Ray | 10 | 0 | | |
| | | Largescale sucker | 233 | 130 | | Fin Ray | 4 | 0 | | |
| | | Largescale sucker | 267 | 234 | | Fin Ray | 4 | 0 | | |
| | | Largescale sucker | 503 | 1732 | | Fin Ray | 15 | 0 | Yellow | 333 |
| | | Longnose sucker | 400 | 800 | | Fin Ray | 10 | 0 | Yellow | 334 |
| | | Longnose sucker | 192 | 82 | | Fin Ray | 3 | 0 | | |
| | | Longnose sucker | 203 | 106 | | Fin Ray | 4 | 0 | | |
| | | Longnose sucker | 173 | 66 | | | | 0 | | |
| | | Longnose sucker | 192 | 106 | | Fin Ray | 3 | 0 | | |
| | | Longnose sucker | 236 | 150 | | Fin Ray | | 0 | | |
| | | Longnose sucker | 207 | 110 | | Fin Ray | 3 | 0 | | |
| | | Longnose sucker | 424 | 972 | | Fin Ray | 10 | 0 | Yellow | 346 |
| | | Longnose sucker | 311 | 416 | | Fin Ray | 6 | 0 | Yellow | 347 |
| | | Longnose sucker | 286 | 260 | | Fin Ray | 5 | 0 | Yellow | 344 |
| | | Longnose sucker | 368 | 592 | | Fin Ray | 8 | 0 | Yellow | 336 |
| | | Longnose sucker | 461 | 1180 | | Fin Ray | 12 | 0 | Yellow | 332 |
| | | Longnose sucker | 429 | 928 | | Fin Ray | 12 | 0 | Yellow | 330 |
| | | Longnose sucker | 185 | 76 | | | | 0 | | |
| | | Longnose sucker | 238 | 146 | | Fin Ray | 4 | 0 | | |
| | | Longnose sucker | 128 | 22 | | Scale | 2 | 0 | | |
| | | Longnose sucker | 163 | 46 | | | | 0 | | |
| | | Longnose sucker | 148 | 50 | | | | 0 | | |
| | | Mountain whitefish | 422 | 852 | | | | 0 | Yellow | 337 |
| | | Mountain whitefish | 330 | 448 | | | | 0 | Yellow | 345 |
| | | Mountain whitefish | 344 | 462 | | | | 0 | Yellow | 341 |
| | | Mountain whitefish | 281 | 242 | | | | 0 | Yellow | 348 |
| | | Mountain whitefish | 276 | 228 | | | | 0 | Yellow | 354 |
| | | Mountain whitefish | 265 | 220 | | | | 0 | Yellow | 353 |
| | | Mountain whitefish | 328 | 398 | | | | 0 | Yellow | 349 |
| | | Mountain whitefish | 356 | 430 | | | | 0 | Yellow | 335 |
| | | Mountain whitefish | 248 | 166 | | | | 0 | | |
| | | Mountain whitefish | 135 | 22 | | | | 0 | | |
| | | Mountain whitefish | 330 | 408 | | | | 0 | Yellow | 342 |
| | | Mountain whitefish | 325 | 364 | | | | 0 | Yellow | 351 |
| | | Mountain whitefish | 205 | 104 | | | | 0 | | |
| | | Mountain whitefish | 337 | 396 | | | | 0 | Yellow | 331 |
| | | Mountain whitefish | 178 | 60 | | | | 0 | | |
| | | Mountain whitefish | 244 | 148 | | | | 0 | | |
| | | Mountain whitefish | 254 | 160 | | | | 0 | Yellow | 339 |
| | | Mountain whitefish | 325 | 376 | | | | 0 | Yellow | 338 |
| | | Mountain whitefish | 291 | 286 | | | | 0 | Yellow | 343 |
| | | Mountain whitefish | 324 | 378 | | | | 0 | Yellow | 340 |
| | | Mountain whitefish | 288 | 274 | | | | 0 | Yellow | 350 |

Appendix C Table C1. Life history data for fish sampled during Phase I of the Peace River Fish Community Indexing Program, 2001

| Area and Waterbody | Site Label Sample Date and Kilometre | Common Name | Fork Length (mm) | Weight (gm) | Sexual Maturity | Age Structure | Age | Capt. Code | Tag Colour | Tag Number |
|--------------------|--------------------------------------|---------------------|------------------|-------------|-----------------|---------------|-----|------------|------------|------------|
| Zone 3 | Halfway River | | | | | | | | | |
| | ES0302 20/08/2001 | 95.0 | | | | | | | | |
| | | Northern pikeminnow | 225 | 124 | | | | 0 | | |
| | | Mountain whitefish | 414 | 852 | 8 | | | 0 | Yellow | 1557 |
| | | Mountain whitefish | 277 | | | | | 0 | | |
| | | Mountain whitefish | 349 | | | | | 0 | | |
| | | Mountain whitefish | 431 | 1098 | | | | 0 | Yellow | 1576 |
| | | Mountain whitefish | 313 | | | | | 0 | | |
| | | Mountain whitefish | 286 | | | | | 0 | | |
| | | Mountain whitefish | 332 | | 8 | | | 0 | Yellow | 1556 |
| | | Mountain whitefish | 400 | | | | | 0 | | |
| | | Mountain whitefish | 257 | | | | | 0 | | |
| | | Mountain whitefish | 305 | | | | | 0 | | |
| | | Mountain whitefish | 393 | | | | | 0 | Yellow | 1555 |
| | | Mountain whitefish | 293 | | | | | 0 | Yellow | 1554 |
| | | Mountain whitefish | 293 | | | | | 0 | | |
| | | Mountain whitefish | 368 | | | | | 0 | | |
| | | Mountain whitefish | 385 | | | | | 0 | Yellow | 1552 |
| | | Mountain whitefish | 407 | 784 | | | | 0 | Yellow | 1551 |
| | | Mountain whitefish | 289 | | | | | 0 | | |
| | | Mountain whitefish | 326 | | | | | 0 | | |
| | | Mountain whitefish | 422 | | | | | 0 | | |
| | | Mountain whitefish | 350 | | 8 | | | 0 | | |
| | | Mountain whitefish | 338 | | 8 | | | 0 | | |
| | | Mountain whitefish | 343 | | 8 | | | 0 | Yellow | 1553 |
| | | Mountain whitefish | 327 | | | | | 0 | | |
| | | Mountain whitefish | 421 | | | | | 0 | | |
| | | Mountain whitefish | 372 | | | | | 0 | | |
| | | Mountain whitefish | 362 | | 8 | | | 0 | | |
| | | Mountain whitefish | 335 | | | | | 0 | | |
| | | Mountain whitefish | 240 | | | | | 0 | | |
| | | Mountain whitefish | 285 | | | | | 0 | | |
| | | Mountain whitefish | 321 | | | | | 0 | | |
| | | Mountain whitefish | 297 | | | | | 0 | | |
| | | Mountain whitefish | 388 | | | | | 0 | | |
| | | Mountain whitefish | 327 | | 8 | | | 0 | | |
| | | Mountain whitefish | 342 | | 8 | | | 0 | | |
| | | Mountain whitefish | 327 | | | | | 0 | | |
| | | Mountain whitefish | 267 | | | | | 0 | | |
| | | Mountain whitefish | 330 | | 8 | | | 0 | | |
| | | Mountain whitefish | 372 | | 8 | | | 0 | | |
| | | Mountain whitefish | 393 | | 8 | | | 0 | | |
| | | Mountain whitefish | 323 | | 8 | | | 0 | | |
| | | Mountain whitefish | 366 | | | | | 0 | | |
| | | Mountain whitefish | 342 | | 8 | | | 0 | | |
| | | Mountain whitefish | 294 | | | | | 0 | | |
| | ES0303 20/08/2001 | 93.0 | | | | | | | | |
| | | Arctic grayling | 369 | 682 | 20 | | | 0 | Yellow | 360 |
| | | Arctic grayling | 369 | 622 | 20 | | | 0 | Yellow | 356 |
| | | Arctic grayling | 164 | 56 | | | | 0 | | |
| | | Arctic grayling | 273 | | | | | 0 | Yellow | 357 |

Appendix C Table C1. Life history data for fish sampled during Phase I of the Peace River Fish Community Indexing Program, 2001

| Area and Waterbody | Site Label Sample Date and Kilometre | Common Name | Fork Length (mm) | Weight (gm) | Sexual Maturity | Age Structure | Age | Capt. Code | Tag Colour | Tag Number |
|--------------------|--|--------------------|---------------------|----------------|--------------------|------------------|-----|---------------|---------------|---------------|
| Zone 3 | Halfway River | | | | | | | | | |
| | ES0303 | 20/08/2001 | 93.0 | | | | | | | |
| | | Arctic grayling | 129 | 50 | | | | 0 | | |
| | | Arctic grayling | 179 | 64 | | | | 0 | | |
| | | Brook Trout | 275 | 224 | | Fin Ray | 3 | 0 | Yellow | 358 |
| | | Mountain whitefish | 194 | 72 | | | | 0 | | |
| | | Mountain whitefish | 100 | 70 | | | | 0 | | |
| | | Mountain whitefish | 199 | 80 | | | | 0 | | |
| | | Mountain whitefish | 205 | 84 | | | | 0 | | |
| | | Mountain whitefish | 212 | 102 | | | | 0 | | |
| | | Mountain whitefish | 192 | 68 | | | | 0 | | |
| | | Mountain whitefish | 320 | 396 | | | | 0 | Yellow | 355 |
| | | Mountain whitefish | 205 | 92 | | | | 0 | | |
| | | Mountain whitefish | 184 | 68 | | | | 0 | | |
| | | Mountain whitefish | 213 | 106 | | | | 0 | | |
| | | Mountain whitefish | 192 | 70 | | | | 0 | | |
| | | Mountain whitefish | 198 | 70 | | | | 0 | | |
| | | Mountain whitefish | 201 | 78 | | | | 0 | | |
| | | Prickly sculpin | 90 | | | | | 0 | | |
| | | Rainbow trout | 158 | 50 | | | | 0 | | |
| | | Rainbow trout | 363 | | | | | 0 | | |
| | | Rainbow trout | 261 | 210 | | | | 0 | Yellow | 359 |
| | | Arctic grayling | 322 | 406 | | | | 0 | Yellow | 1580 |
| | | Arctic grayling | 362 | 594 | | | | 0 | Yellow | 1577 |
| | | Arctic grayling | 403 | 758 | | | | 0 | Yellow | 1578 |
| | | Bull trout | 373 | 476 | | Fin Ray | 4 | 0 | Yellow | 1582 |
| | | Largescale sucker | 515 | | | | | 0 | | |
| | | Largescale sucker | 570 | 2154 | | | | 0 | Yellow | 1579 |
| | | Largescale sucker | 445 | | | | | 0 | | |
| | | Longnose sucker | 354 | | | | | 0 | | |
| | | Longnose sucker | 445 | | | | | 0 | | |
| | | Longnose sucker | 422 | | | | | 0 | | |
| | | Longnose sucker | 458 | | | | | 0 | | |
| | | Longnose sucker | 449 | | | | | 0 | | |
| | | Longnose sucker | 412 | | | | | 0 | | |
| | | Longnose sucker | 404 | | | | | 0 | | |
| | | Longnose sucker | 484 | | | | | 0 | | |
| | | Mountain whitefish | 226 | | | | | 0 | | |
| | | Mountain whitefish | 398 | | | | | 0 | | |
| | | Mountain whitefish | 222 | 108 | | | | 0 | | |
| | | Mountain whitefish | 367 | | | | | 0 | | |
| | | Mountain whitefish | 334 | | | | | 0 | | |
| | | Mountain whitefish | 390 | | | | | 0 | | |
| | | Mountain whitefish | 350 | | | | | 0 | | |
| | | Mountain whitefish | 215 | 90 | | | | 0 | | |
| | | Mountain whitefish | 136 | 20 | | | | 0 | | |
| | | Mountain whitefish | 355 | | | | | 0 | | |
| | | Mountain whitefish | 291 | | | | | 0 | | |
| | | Mountain whitefish | 344 | | | | | 0 | | |
| | | Mountain whitefish | 208 | 92 | | | | 0 | | |
| | | Mountain whitefish | 351 | | | | | 0 | | |

Appendix C Table C1. Life history data for fish sampled during Phase I of the Peace River Fish Community Indexing Program, 2001

| Area and Waterbody | Site Label Sample Date and Kilometre | Common Name | Fork Length (mm) | Weight (gm) | Sexual Maturity | Age Structure | Age | Capt. Code | Tag Colour | Tag Number |
|--------------------|--|--------------------|---------------------|----------------|--------------------|------------------|-----|---------------|---------------|---------------|
| Zone 3 | Halfway River | | | | | | | | | |
| | ES0303 | 20/08/2001 | 93.0 | | | | | | | |
| | | Mountain whitefish | 205 | 78 | | | | 0 | | |
| | | Mountain whitefish | 253 | | | | | 0 | | |
| | | Mountain whitefish | 146 | 28 | | | | 0 | | |
| | | Mountain whitefish | 381 | | | | | 0 | | |
| | | Mountain whitefish | 391 | | | | | 0 | | |
| | | Mountain whitefish | 335 | | | | | 0 | | |
| | | Mountain whitefish | 383 | | | | | 0 | | |
| | | Mountain whitefish | 208 | 78 | | | | 0 | | |
| | | Mountain whitefish | 328 | | | | | 0 | | |
| | | Rainbow trout | 273 | 242 | | | | 0 | Yellow | 1581 |
| | ES0304 | 20/08/2001 | 91.4 | | | | | | | |
| | | Arctic grayling | 280 | 264 | | | | 0 | Yellow | 364 |
| | | Arctic grayling | 315 | 394 | | | | 0 | Yellow | 365 |
| | | Arctic grayling | 372 | 588 | | 10 | | 0 | Yellow | 366 |
| | | Arctic grayling | 412 | 824 | | 10 | | 0 | Yellow | 367 |
| | | Arctic grayling | 183 | 76 | | | | 0 | | |
| | | Arctic grayling | 178 | 64 | | | | 0 | | |
| | | Longnose sucker | 390 | 776 | | | | 0 | Yellow | 361 |
| | | Mountain whitefish | 130 | 18 | | | | 0 | | |
| | | Mountain whitefish | 257 | 186 | | | | 0 | Yellow | 363 |
| | | Mountain whitefish | 135 | 24 | | | | 0 | | |
| | | Mountain whitefish | 121 | 18 | | | | 0 | | |
| | | Mountain whitefish | 140 | 18 | | | | 0 | | |
| | | Mountain whitefish | 216 | 88 | | | | 0 | | |
| | | Mountain whitefish | 136 | 18 | | | | 0 | | |
| | | Mountain whitefish | 140 | 28 | | | | 0 | | |
| | | Mountain whitefish | 121 | 20 | | | | 0 | | |
| | | Mountain whitefish | 183 | 58 | | | | 0 | | |
| | | Mountain whitefish | 309 | 358 | | | | 0 | Yellow | 362 |
| | | Mountain whitefish | 155 | 36 | | | | 0 | | |
| | | Mountain whitefish | 181 | 60 | | | | 0 | | |
| | | Mountain whitefish | 136 | 28 | | | | 0 | | |
| | | Mountain whitefish | 126 | 26 | | | | 0 | | |
| | | Mountain whitefish | 127 | 20 | | | | 0 | | |
| | | Mountain whitefish | 130 | 22 | | | | 0 | | |
| | | Mountain whitefish | 191 | 72 | | | | 0 | | |
| | | Mountain whitefish | 126 | 20 | | | | 0 | | |
| | | Mountain whitefish | 130 | 20 | | | | 0 | | |
| | | Mountain whitefish | 212 | 84 | | | | 0 | | |
| | | Mountain whitefish | 131 | 24 | | | | 0 | | |
| | | Rainbow trout | 157 | | | | | 0 | | |
| | | Arctic grayling | 393 | 826 | | | | 0 | Yellow | 1585 |
| | | Arctic grayling | 370 | 592 | | | | 0 | Yellow | 1598 |
| | | Arctic grayling | 358 | 622 | | | | 0 | Yellow | 1596 |
| | | Arctic grayling | 354 | 590 | | | | 0 | Yellow | 1604 |
| | | Arctic grayling | 346 | 614 | | | | 0 | Yellow | 1591 |
| | | Bull trout | 392 | 514 | | | | 0 | Yellow | 1616 |
| | | Longnose sucker | 377 | 730 | | | | 0 | Yellow | 1593 |
| | | Longnose sucker | 436 | 1130 | | | | 0 | Yellow | 1592 |

Appendix C Table C1. Life history data for fish sampled during Phase I of the Peace River Fish Community Indexing Program, 2001

| Area and Waterbody | Site Label Sample Date and Kilometre | Common Name | Fork Length (mm) | Weight (gm) | Sexual Maturity | Age Structure | Age | Capt. Code | Tag Colour | Tag Number |
|--------------------|--|--------------------|---------------------|----------------|--------------------|------------------|-----|---------------|---------------|---------------|
| Zone 3 | Halfway River | | | | | | | | | |
| | ES0304 | 20/08/2001 | 91.4 | | | | | | | |
| | | Longnose sucker | 259 | 60 | | | | 0 | Yellow | 1608 |
| | | Longnose sucker | 349 | 558 | | | | 0 | Yellow | 1599 |
| | | Longnose sucker | 450 | 1204 | | | | 0 | Yellow | 1607 |
| | | Longnose sucker | 387 | 752 | | | | 0 | Yellow | 1603 |
| | | Longnose sucker | 367 | 626 | | | | 0 | Yellow | 1589 |
| | | Longnose sucker | 389 | 788 | | | | 0 | Yellow | 1605 |
| | | Mountain whitefish | 329 | 404 | | | | 0 | | |
| | | Mountain whitefish | 412 | 750 | | | | 0 | Yellow | 1597 |
| | | Mountain whitefish | 335 | 420 | | 8 | | 0 | Yellow | 1600 |
| | | Mountain whitefish | 397 | 778 | | | | 0 | Yellow | 1601 |
| | | Mountain whitefish | 335 | 435 | | | | 0 | Yellow | 1615 |
| | | Mountain whitefish | 217 | 100 | | | | 0 | | |
| | | Mountain whitefish | 223 | 124 | | | | 0 | | |
| | | Mountain whitefish | 256 | 192 | | | | 0 | Yellow | 1613 |
| | | Mountain whitefish | 206 | 102 | | | | 0 | | |
| | | Mountain whitefish | 329 | 420 | | | | 0 | Yellow | 1614 |
| | | Mountain whitefish | 273 | 212 | | | | 0 | Yellow | 1619 |
| | | Mountain whitefish | 211 | 106 | | | | 0 | | |
| | | Mountain whitefish | 156 | 40 | | | | 0 | | |
| | | Mountain whitefish | 367 | 564 | | 8 | | 0 | Yellow | 1618 |
| | | Mountain whitefish | 162 | 54 | | | | 0 | | |
| | | Mountain whitefish | 418 | 846 | | 18 | | 0 | Yellow | 1611 |
| | | Mountain whitefish | 173 | 50 | | | | 0 | | |
| | | Mountain whitefish | 332 | 426 | | | | 0 | Yellow | 1606 |
| | | Mountain whitefish | 221 | 118 | | | | 0 | | |
| | | Mountain whitefish | 220 | 108 | | | | 0 | | |
| | | Mountain whitefish | 321 | 370 | | | | 0 | Yellow | 1595 |
| | | Mountain whitefish | 403 | 742 | | | | 0 | Yellow | 1594 |
| | | Mountain whitefish | 247 | 176 | | | | 0 | | |
| | | Mountain whitefish | 357 | 522 | | | | 0 | | |
| | | Mountain whitefish | 302 | 276 | | | | 0 | Yellow | 1586 |
| | | Mountain whitefish | 346 | 430 | | | | 0 | Yellow | 1612 |
| | | Mountain whitefish | 357 | 484 | | | | 0 | Yellow | 1590 |
| | | Mountain whitefish | 346 | 560 | | | | 0 | Yellow | 1584 |
| | | Mountain whitefish | 267 | 196 | | | | 0 | Yellow | 1602 |
| | | Mountain whitefish | 340 | 432 | | | | 0 | | |
| | | Mountain whitefish | 389 | 712 | | | | 0 | Yellow | 1610 |
| | | Mountain whitefish | 348 | 438 | | | | 0 | Yellow | 1587 |
| | | Mountain whitefish | 396 | 624 | | 17 | | 0 | Yellow | 1609 |
| | | Rainbow trout | 193 | 86 | | | | 0 | | |
| | | Rainbow trout | 337 | 472 | | | | 0 | Yellow | 1588 |
| | | Rainbow trout | 324 | 400 | | | | 0 | Yellow | 1617 |
| | | Rainbow trout | 293 | 296 | | | | 0 | Yellow | 1583 |
| | ES0305 | 20/08/2001 | 90.0 | | | | | | | |
| | | Bull trout | 434 | 728 | | Fin Ray | | 0 | Yellow | 383 |
| | | Kokanee | 124 | 16 | | | | 0 | | |
| | | Largescale sucker | 474 | 1448 | | | | 0 | Yellow | 369 |
| | | Largescale sucker | 438 | 1304 | | | | 0 | | |
| | | Largescale sucker | 500 | 1656 | | | | 0 | Yellow | 377 |

Appendix C Table C1. Life history data for fish sampled during Phase I of the Peace River Fish Community Indexing Program, 2001

| Area and Waterbody | Site Label Sample Date and Kilometre | Common Name | Fork Length (mm) | Weight (gm) | Sexual Maturity | Age Structure | Age | Capt. Code | Tag Colour | Tag Number |
|--------------------|--|--------------------|---------------------|----------------|--------------------|------------------|-----|---------------|---------------|---------------|
| Zone 3 | Halfway River | | | | | | | | | |
| | ES0305 | 20/08/2001 | 90.0 | | | | | | | |
| | | Largescale sucker | 446 | 1134 | | | | 0 | Yellow | 371 |
| | | Longnose sucker | 264 | 256 | | | | 0 | Yellow | 384 |
| | | Longnose sucker | 157 | 44 | | | | 0 | | |
| | | Longnose sucker | 392 | 780 | | | | 0 | Yellow | 380 |
| | | Longnose sucker | 409 | 874 | | | | 0 | Yellow | 368 |
| | | Mountain whitefish | 133 | 22 | | | | 0 | | |
| | | Mountain whitefish | 208 | 96 | | | | 0 | | |
| | | Mountain whitefish | 254 | 180 | | | | 0 | Yellow | 381 |
| | | Mountain whitefish | 411 | 770 | | | | 0 | Yellow | 378 |
| | | Mountain whitefish | 253 | 152 | | | | 0 | Yellow | 385 |
| | | Mountain whitefish | 134 | 28 | | | | 0 | | |
| | | Mountain whitefish | 140 | 26 | | | | 0 | | |
| | | Mountain whitefish | 129 | 20 | | | | 0 | | |
| | | Mountain whitefish | 327 | 380 | | | | 0 | Yellow | 376 |
| | | Mountain whitefish | 387 | 586 | | | | 0 | Yellow | 370 |
| | | Mountain whitefish | 352 | 496 | | | | 0 | Yellow | 382 |
| | | Mountain whitefish | 137 | 30 | | | | 0 | | |
| | | Mountain whitefish | 137 | 26 | | | | 0 | | |
| | | Mountain whitefish | 204 | 84 | | | | 0 | | |
| | | Mountain whitefish | 188 | 58 | | | | 0 | | |
| | | Mountain whitefish | 204 | 78 | | | | 0 | | |
| | | Mountain whitefish | 486 | 1500 | | | | 0 | Yellow | 375 |
| | | Mountain whitefish | 139 | 24 | | | | 0 | | |
| | | Mountain whitefish | 338 | 482 | | | | 0 | Yellow | 373 |
| | | Mountain whitefish | 186 | 64 | | | | 0 | | |
| | | Mountain whitefish | 193 | 76 | | | | 0 | | |
| | | Mountain whitefish | 207 | 92 | | | | 0 | | |
| | | Mountain whitefish | 390 | 654 | | | | 0 | Yellow | 374 |
| | | Mountain whitefish | 264 | 220 | | | | 0 | Yellow | 372 |
| | | Mountain whitefish | 201 | 78 | | | | 0 | | |
| | | Mountain whitefish | 342 | 420 | | | | 0 | Yellow | 379 |
| | | Mountain whitefish | 340 | 410 | | | | 0 | | |
| | | Mountain whitefish | 134 | 26 | | | | 0 | | |
| | | Mountain whitefish | 176 | 54 | | | | 0 | | |
| | | Mountain whitefish | 132 | 22 | | | | 0 | | |
| | | Bull trout | 365 | 478 | | | | 0 | Yellow | 1634 |
| | | Largescale sucker | 548 | 1892 | | | | 0 | Yellow | 1625 |
| | | Longnose sucker | 386 | 742 | | | | 0 | Yellow | 1633 |
| | | Longnose sucker | 346 | | | | | 0 | Yellow | 1631 |
| | | Longnose sucker | 378 | | | | | 0 | Yellow | 1630 |
| | | Longnose sucker | 382 | 602 | | | | 0 | Yellow | 1624 |
| | | Mountain whitefish | 337 | | | | | 0 | Yellow | 1621 |
| | | Mountain whitefish | 333 | | | | | 0 | Yellow | 1628 |
| | | Mountain whitefish | 219 | 108 | | | | 0 | | |
| | | Mountain whitefish | 304 | | | | | 0 | Yellow | 1632 |
| | | Mountain whitefish | 389 | 604 | | | | 0 | Yellow | 1626 |
| | | Mountain whitefish | 360 | | | | | 0 | | |
| | | Mountain whitefish | 193 | 64 | | | | 0 | | |
| | | Mountain whitefish | 307 | | | | | 0 | Yellow | 1635 |

Appendix C Table C1. Life history data for fish sampled during Phase I of the Peace River Fish Community Indexing Program, 2001

| Area and Waterbody | Site Label Sample Date and Kilometre | Common Name | Fork Length (mm) | Weight (gm) | Sexual Maturity | Age Structure | Age | Capt. Code | Tag Colour | Tag Number |
|--------------------|--|--------------------|---------------------|----------------|--------------------|------------------|-----|---------------|---------------|---------------|
| Zone 3 | Halfway River | | | | | | | | | |
| | ES0305 | 20/08/2001 | 90.0 | | | | | | | |
| | | Mountain whitefish | 283 | 252 | | | | 0 | Yellow | 1627 |
| | | Mountain whitefish | 277 | 252 | 8 | | | 0 | Yellow | 1623 |
| | | Mountain whitefish | 315 | | | | | 0 | | |
| | | Mountain whitefish | 357 | | | | | 0 | Yellow | 1620 |
| | | Mountain whitefish | 340 | | | | | 0 | Yellow | 1629 |
| | | Mountain whitefish | 249 | | | | | 0 | | |
| | | Rainbow trout | 344 | 514 | | | | 0 | Yellow | 1622 |
| | ES0306 | 21/08/2001 | 108.0 | | | | | | | |
| | | Arctic grayling | 164 | 56 | | | | 0 | | |
| | | Arctic grayling | 271 | 230 | | | | 0 | Yellow | 391 |
| | | Arctic grayling | 324 | 382 | 20 | | | 0 | Yellow | 387 |
| | | Mountain whitefish | 135 | 22 | | | | 0 | | |
| | | Mountain whitefish | 249 | 182 | | | | 0 | | |
| | | Mountain whitefish | 413 | 852 | | | | 0 | Yellow | 389 |
| | | Mountain whitefish | 123 | 18 | | | | 0 | | |
| | | Mountain whitefish | 214 | 92 | | | | 0 | | |
| | | Mountain whitefish | 140 | 26 | | | | 0 | | |
| | | Mountain whitefish | 204 | 96 | | | | 0 | | |
| | | Mountain whitefish | 403 | 694 | | | | 0 | Yellow | 393 |
| | | Mountain whitefish | 148 | 30 | | | | 0 | | |
| | | Mountain whitefish | 143 | 28 | | | | 0 | | |
| | | Mountain whitefish | 299 | 280 | | | | 0 | Yellow | 388 |
| | | Mountain whitefish | 357 | 502 | | | | 0 | Yellow | 386 |
| | | Mountain whitefish | 138 | 20 | | | | 0 | | |
| | | Mountain whitefish | 162 | 38 | | | | 0 | | |
| | | Mountain whitefish | 200 | 82 | | | | 0 | | |
| | | Mountain whitefish | 130 | 20 | | | | 0 | | |
| | | Mountain whitefish | 251 | | | | | 0 | Yellow | 392 |
| | | Mountain whitefish | 223 | 106 | | | | 0 | | |
| | | Mountain whitefish | 364 | 490 | | | | 0 | Yellow | 394 |
| | | Mountain whitefish | 220 | | | | | 0 | | |
| | | Mountain whitefish | 264 | 196 | | | | 0 | Yellow | 396 |
| | | Mountain whitefish | 198 | 82 | | | | 0 | | |
| | | Mountain whitefish | 214 | 104 | | | | 0 | | |
| | | Mountain whitefish | 142 | 61 | | | | 0 | | |
| | | Mountain whitefish | 322 | 352 | | | | 0 | Yellow | 390 |
| | | Mountain whitefish | 220 | 100 | | | | 0 | | |
| | | Mountain whitefish | 203 | 90 | | | | 0 | | |
| | | Mountain whitefish | 198 | 78 | | | | 0 | | |
| | | Mountain whitefish | 194 | 78 | | | | 0 | | |
| | | Mountain whitefish | 180 | 62 | | | | 0 | | |
| | | Mountain whitefish | 197 | 80 | | | | 0 | | |
| | | Mountain whitefish | 228 | 138 | | | | 0 | | |
| | | Arctic grayling | 378 | 682 | | | | 0 | Yellow | 1441 |
| | | Arctic grayling | 402 | 806 | | | | 0 | Yellow | 1442 |
| | | Arctic grayling | 255 | 200 | | | | 0 | | |
| | | Arctic grayling | 209 | 108 | | | | 0 | | |
| | | Bull trout | 447 | 846 | | Fin Ray | 5 | 0 | Yellow | 1463 |
| | | Largescale sucker | 373 | 802 | | | | 0 | Yellow | 1459 |

Appendix C Table C1. Life history data for fish sampled during Phase I of the Peace River Fish Community Indexing Program, 2001

| Area and Waterbody | Site Label Sample Date and Kilometre | Common Name | Fork Length (mm) | Weight (gm) | Sexual Maturity | Age Structure | Age | Capt. Code | Tag Colour | Tag Number |
|--------------------|--------------------------------------|---------------------|------------------|-------------|-----------------|---------------|-----|------------|------------|------------|
| Zone 3 | Halfway River | | | | | | | | | |
| | ES0306 21/08/2001 108.0 | Largescale sucker | 474 | 1384 | | | | 0 | Yellow | 1436 |
| | | Largescale sucker | 420 | 892 | | | | 0 | Yellow | 1434 |
| | | Largescale sucker | 455 | 1230 | | | | 0 | | |
| | | Largescale sucker | 467 | 1510 | | | | 0 | Yellow | 1460 |
| | | Largescale sucker | 475 | 1640 | | | | 0 | Yellow | 1430 |
| | | Largescale sucker | 537 | 2058 | | | | 0 | Yellow | 1461 |
| | | Largescale sucker | 494 | 1728 | | | | 0 | | |
| | | Largescale sucker | 336 | 490 | | | | 0 | Yellow | 1457 |
| | | Largescale sucker | 455 | 1284 | | 9 | | 0 | Yellow | 1458 |
| | | Largescale sucker | 453 | 1224 | | | | 0 | Yellow | 1448 |
| | | Longnose sucker | 367 | 656 | | | | 0 | Yellow | 1435 |
| | | Longnose sucker | 406 | 930 | | | | 0 | Yellow | 1433 |
| | | Longnose sucker | 434 | 669 | | | | 0 | | |
| | | Longnose sucker | 372 | 676 | | | | 0 | Yellow | 1450 |
| | | Longnose sucker | 447 | | | | | 0 | Yellow | 1447 |
| | | Longnose sucker | 417 | 936 | | | | 0 | Yellow | 1431 |
| | | Longnose sucker | 479 | 978 | | | | 0 | Yellow | 1432 |
| | | Longnose sucker | 365 | 570 | | | | 0 | Yellow | 1438 |
| | | Longnose sucker | 326 | 446 | | | | 0 | Yellow | 1449 |
| | | Longnose sucker | 418 | 1006 | | | | 0 | Yellow | 1452 |
| | | Longnose sucker | 381 | 696 | | | | 0 | | |
| | | Longnose sucker | 447 | 1228 | | | | 0 | | |
| | | Mountain whitefish | 229 | 124 | | | | 0 | | |
| | | Mountain whitefish | 258 | 162 | | | | 0 | Yellow | 1439 |
| | | Mountain whitefish | 337 | | | | | 0 | Yellow | 1446 |
| | | Mountain whitefish | 257 | 198 | | | | 0 | Yellow | 1462 |
| | | Mountain whitefish | 222 | 130 | | | | 0 | | |
| | | Mountain whitefish | 271 | 236 | | | | 0 | | |
| | | Mountain whitefish | 276 | 224 | | | | 0 | Yellow | 1440 |
| | | Mountain whitefish | 314 | 354 | | | | 0 | Yellow | 1444 |
| | | Mountain whitefish | 308 | 304 | | | | 0 | Yellow | 1443 |
| | | Mountain whitefish | 297 | 326 | | | | 0 | Yellow | 1445 |
| | | Mountain whitefish | 164 | 48 | | | | 0 | | |
| | | Mountain whitefish | 264 | 48 | | | | 0 | | |
| | | Mountain whitefish | 267 | 224 | | | | 0 | Yellow | 1456 |
| | | Mountain whitefish | 307 | 366 | | | | 0 | Yellow | 1453 |
| | | Mountain whitefish | 152 | 44 | | | | 0 | | |
| | | Northern pikeminnow | 439 | 1074 | | | | 0 | Yellow | 1429 |
| | | Rainbow trout | 481 | 1062 | | | | 0 | Yellow | 1451 |
| | | Rainbow trout | 313 | 340 | | | | 0 | Yellow | 1437 |
| | | Rainbow trout | 415 | 892 | | | | 0 | Yellow | 1455 |
| | | Rainbow trout | 325 | 376 | | | | 0 | Yellow | 1454 |
| | ES0307 21/08/2001 108.0 | Largescale sucker | 541 | 2158 | | Fin Ray | 17 | 0 | Yellow | 397 |
| | | Longnose sucker | 407 | 886 | | Fin Ray | 12 | 0 | Yellow | 407 |
| | | Longnose sucker | 427 | 992 | | Fin Ray | 11 | 0 | Yellow | 395 |
| | | Longnose sucker | 239 | 144 | | Fin Ray | 4 | 0 | | |
| | | Longnose sucker | 396 | 730 | | Fin Ray | 8 | 0 | Yellow | 398 |
| | | Mountain whitefish | 360 | 586 | | | | 0 | Yellow | 421 |

Appendix C Table C1. Life history data for fish sampled during Phase I of the Peace River Fish Community Indexing Program, 2001

| Area and Waterbody | Site Label Sample Date and Kilometre | Common Name | Fork Length (mm) | Weight (gm) | Sexual Maturity | Age Structure | Age | Capt. Code | Tag Colour | Tag Number |
|--------------------|--------------------------------------|--------------------|------------------|-------------|-----------------|---------------|-----|------------|------------|------------|
| Zone 3 | Halfway River | | | | | | | | | |
| | ES0307 21/08/2001 | 108.0 | | | | | | | | |
| | | Mountain whitefish | 310 | 358 | | | | 0 | Yellow | 405 |
| | | Mountain whitefish | 418 | 856 | | | | 0 | Yellow | 406 |
| | | Mountain whitefish | 312 | 396 | | | | 0 | | |
| | | Mountain whitefish | 311 | 322 | | | | 0 | Yellow | 414 |
| | | Mountain whitefish | 324 | 406 | | | | 0 | Yellow | 429 |
| | | Mountain whitefish | 354 | 478 | | | | 0 | Yellow | 410 |
| | | Mountain whitefish | 300 | 344 | | | | 0 | Yellow | 431 |
| | | Mountain whitefish | 280 | 244 | | | | 0 | Yellow | 411 |
| | | Mountain whitefish | 334 | 440 | | | | 0 | Yellow | 404 |
| | | Mountain whitefish | 317 | 332 | | | | 0 | Yellow | 413 |
| | | Mountain whitefish | 337 | 432 | | | | 0 | Yellow | 408 |
| | | Mountain whitefish | 376 | 614 | | | | 0 | Yellow | 409 |
| | | Mountain whitefish | 180 | 62 | | | | 0 | | |
| | | Mountain whitefish | 226 | 120 | | | | 0 | | |
| | | Mountain whitefish | 312 | 326 | | | | 0 | Yellow | 427 |
| | | Mountain whitefish | 248 | 152 | | | | 0 | | |
| | | Mountain whitefish | 293 | 272 | | | | 0 | Yellow | 430 |
| | | Mountain whitefish | 258 | 172 | | | | 0 | Yellow | 441 |
| | | Mountain whitefish | 372 | 542 | | | | 0 | Yellow | 434 |
| | | Mountain whitefish | 264 | 202 | | | | 0 | Yellow | 444 |
| | | Mountain whitefish | 137 | 24 | | | | 0 | | |
| | | Mountain whitefish | 310 | 298 | | | | 0 | Yellow | 416 |
| | | Mountain whitefish | 378 | 626 | | | | 0 | Yellow | 399 |
| | | Mountain whitefish | 279 | 224 | | | | 0 | Yellow | 445 |
| | | Mountain whitefish | 274 | 210 | | | | 0 | Yellow | 432 |
| | | Mountain whitefish | 149 | 32 | | | | 0 | | |
| | | Mountain whitefish | 244 | 156 | | | | 0 | | |
| | | Mountain whitefish | 136 | 22 | | | | 0 | | |
| | | Mountain whitefish | 271 | 202 | | | | 0 | Yellow | 437 |
| | | Mountain whitefish | 274 | 210 | | | | 0 | Yellow | 443 |
| | | Mountain whitefish | 249 | 154 | | | | 0 | | |
| | | Mountain whitefish | 202 | 82 | | | | 0 | | |
| | | Mountain whitefish | 201 | 76 | | | | 0 | | |
| | | Mountain whitefish | 211 | 82 | | | | 0 | | |
| | | Mountain whitefish | 134 | 20 | | | | 0 | | |
| | | Mountain whitefish | 150 | 24 | | | | 0 | | |
| | | Mountain whitefish | 218 | 92 | | | | 0 | | |
| | | Mountain whitefish | 276 | 228 | | | | 0 | Yellow | 415 |
| | | Mountain whitefish | 252 | 174 | | | | 0 | Yellow | 442 |
| | | Mountain whitefish | 136 | 24 | | | | 0 | | |
| | | Mountain whitefish | 331 | 400 | | | | 0 | Yellow | 435 |
| | | Mountain whitefish | 310 | 288 | | | | 0 | Yellow | 436 |
| | | Mountain whitefish | 301 | | | | | 0 | | |
| | | Mountain whitefish | 314 | 346 | | | | 0 | Yellow | 426 |
| | | Mountain whitefish | 314 | | | | | 0 | Yellow | 401 |
| | | Mountain whitefish | 325 | 324 | | | | 0 | Yellow | 400 |
| | | Mountain whitefish | 326 | 404 | | | | 0 | Yellow | 422 |
| | | Mountain whitefish | 342 | 460 | | | | 0 | Yellow | 425 |
| | | Mountain whitefish | 202 | 82 | | | | 0 | | |

Appendix C Table C1. Life history data for fish sampled during Phase I of the Peace River Fish Community Indexing Program, 2001

| Area and Waterbody | Site Label Sample Date and Kilometre | Common Name | Fork Length (mm) | Weight (gm) | Sexual Maturity | Age Structure | Age | Capt. Code | Tag Colour | Tag Number |
|--------------------|--|--------------------|---------------------|----------------|--------------------|------------------|-----|---------------|---------------|---------------|
| Zone 3 | Halfway River | | | | | | | | | |
| | ES0307 21/08/2001 | 108.0 | | | | | | | | |
| | | Mountain whitefish | 354 | 460 | | | | 0 | Yellow | 424 |
| | | Mountain whitefish | 337 | 462 | | | | 0 | Yellow | 417 |
| | | Mountain whitefish | 315 | 332 | | | | 0 | Yellow | 418 |
| | | Mountain whitefish | 314 | 362 | | | | 0 | Yellow | 419 |
| | | Mountain whitefish | 371 | 608 | | | | 0 | Yellow | 428 |
| | | Mountain whitefish | 333 | 376 | | | | 0 | Yellow | 420 |
| | | Mountain whitefish | 306 | 356 | | | | 0 | Yellow | 412 |
| | | Mountain whitefish | 344 | 512 | | | | 0 | Yellow | 402 |
| | | Mountain whitefish | 427 | 830 | | | | 0 | Yellow | 403 |
| | | Mountain whitefish | 244 | 160 | | | | 0 | | |
| | | Mountain whitefish | 335 | 434 | | | | 0 | Yellow | 423 |
| | | Mountain whitefish | | | | | | 0 | | |
| | | Mountain whitefish | 387 | 552 | | | | 0 | Yellow | 440 |
| | | Mountain whitefish | 279 | 228 | | | | 0 | Yellow | 439 |
| | | Mountain whitefish | 192 | | | | | 0 | | |
| | | Mountain whitefish | 269 | 184 | | | | 0 | Yellow | 438 |
| | | Mountain whitefish | 202 | 80 | | | | 0 | | |
| | | Mountain whitefish | 188 | 64 | | | | 0 | | |
| | | Mountain whitefish | 197 | 74 | | | | 0 | | |
| | | Rainbow trout | 425 | 878 | | | | 0 | Yellow | 433 |
| | | Largescale sucker | 492 | 1478 | | | | 0 | Yellow | 1476 |
| | | Largescale sucker | 288 | 312 | | | | 0 | Yellow | 1480 |
| | | Mountain whitefish | 323 | 384 | | | | 0 | Yellow | 1468 |
| | | Mountain whitefish | 346 | 424 | | | | 0 | Yellow | 1472 |
| | | Mountain whitefish | 328 | 436 | | | | 0 | Yellow | 1473 |
| | | Mountain whitefish | 152 | 32 | | | | 0 | | |
| | | Mountain whitefish | 220 | 102 | | | | 0 | | |
| | | Mountain whitefish | 312 | 338 | | | | 0 | Yellow | 1465 |
| | | Mountain whitefish | 215 | 122 | | | | 0 | | |
| | | Mountain whitefish | 250 | 194 | | | | 0 | Yellow | 1477 |
| | | Mountain whitefish | 297 | 314 | | | | 0 | Yellow | 1478 |
| | | Mountain whitefish | 292 | 290 | | | | 0 | Yellow | 1470 |
| | | Mountain whitefish | 343 | 492 | | | | 0 | Yellow | 1469 |
| | | Mountain whitefish | 304 | 352 | | | | 0 | Yellow | 1474 |
| | | Mountain whitefish | 346 | 462 | | | | 0 | Yellow | 1481 |
| | | Mountain whitefish | 316 | 377 | | | | 0 | Yellow | 1482 |
| | | Mountain whitefish | 260 | 210 | | | | 0 | Yellow | 1483 |
| | | Mountain whitefish | 338 | 532 | | | | 0 | Yellow | 1484 |
| | | Mountain whitefish | 284 | 258 | | | | 0 | Yellow | 1485 |
| | | Mountain whitefish | 364 | 542 | | | | 0 | Yellow | 1486 |
| | | Mountain whitefish | 145 | 32 | | | | 0 | | |
| | | Mountain whitefish | 382 | 634 | | | | 0 | Yellow | 1479 |
| | | Mountain whitefish | 305 | 322 | | | | 0 | Yellow | 1467 |
| | | Mountain whitefish | 345 | 408 | | | | 0 | Yellow | 1464 |
| | | Mountain whitefish | 257 | 216 | | | | 0 | Yellow | 1475 |
| | | Mountain whitefish | 332 | 386 | | | | 0 | Yellow | 1471 |
| | | Mountain whitefish | 151 | 32 | | | | 0 | | |
| | | Northern pike | 316 | 412 | | | | 0 | Yellow | 1466 |
| | ES0308 21/08/2001 | 106.6 | | | | | | | | |

Appendix C Table C1. Life history data for fish sampled during Phase I of the Peace River Fish Community Indexing Program, 2001

| Area and Waterbody | Site Label Sample Date and Kilometre | Common Name | Fork Length (mm) | Weight (gm) | Sexual Maturity | Age Structure | Age | Capt. Code | Tag Colour | Tag Number |
|--------------------|--|--------------------|---------------------|----------------|--------------------|------------------|-----|---------------|---------------|---------------|
| Zone 3 | Halfway River | | | | | | | | | |
| | ES0308 21/08/2001 | 106.6 | | | | | | | | |
| | | Longnose sucker | 101 | | | | | 0 | | |
| | | Redside shiner | 94 | | | | | 0 | | |
| | | Redside shiner | 96 | | | | | 0 | | |
| | | Redside shiner | 99 | | | | | 0 | | |
| | | Longnose sucker | 173 | 62 | | | | 0 | | |
| | | Longnose sucker | 399 | 772 | | | | 0 | Yellow | 1488 |
| | | Mountain whitefish | 334 | 494 | | | | 0 | Yellow | 1491 |
| | | Mountain whitefish | 347 | 544 | | | | 0 | | |
| | | Mountain whitefish | 353 | 490 | | | | 0 | Yellow | 1487 |
| | | Mountain whitefish | 215 | 110 | | | | 0 | | |
| | | Mountain whitefish | 272 | 208 | | | | 0 | Yellow | 1489 |
| | | Mountain whitefish | 304 | 308 | | | | 0 | Yellow | 1492 |
| | | Mountain whitefish | 313 | 408 | | | | 0 | Yellow | 1490 |
| | ES0309 21/08/2001 | 102.0 | | | | | | | | |
| | | Burbot | 646 | 1392 | | | | 0 | Yellow | 462 |
| | | Largescale sucker | 456 | 1260 | | Fin Ray | 12 | 0 | Yellow | 448 |
| | | Largescale sucker | 500 | 1460 | | Fin Ray | 16 | 0 | | |
| | | Largescale sucker | 438 | 1052 | | Fin Ray | 12 | 0 | Yellow | 451 |
| | | Largescale sucker | 194 | 88 | | Fin Ray | 3 | 0 | | |
| | | Largescale sucker | 464 | 1236 | | Fin Ray | 13 | 0 | Yellow | 452 |
| | | Largescale sucker | 298 | 318 | | Fin Ray | 5 | 0 | Yellow | 464 |
| | | Largescale sucker | 443 | 1002 | | Fin Ray | 12 | 0 | Yellow | 459 |
| | | Largescale sucker | 523 | 1678 | | Fin Ray | 15 | 0 | Yellow | 457 |
| | | Largescale sucker | 432 | 940 | | Fin Ray | 11 | 0 | Yellow | 455 |
| | | Longnose sucker | 365 | 654 | | Fin Ray | 8 | 0 | Yellow | 460 |
| | | Longnose sucker | 353 | 494 | | Fin Ray | 9 | 0 | Yellow | 456 |
| | | Longnose sucker | 383 | 656 | | Fin Ray | 6 | 0 | Yellow | 463 |
| | | Longnose sucker | 391 | 764 | | Fin Ray | 8 | 0 | Yellow | 449 |
| | | Longnose sucker | 372 | 752 | | Fin Ray | 9 | 0 | Yellow | 454 |
| | | Longnose sucker | 417 | 894 | | Fin Ray | 9 | 0 | Yellow | 453 |
| | | Longnose sucker | 374 | 524 | | Fin Ray | 7 | 0 | Yellow | 465 |
| | | Longnose sucker | 335 | | | Fin Ray | 7 | 0 | Yellow | 446 |
| | | Longnose sucker | 385 | 764 | | Fin Ray | 10 | 0 | Yellow | 461 |
| | | Longnose sucker | 397 | 752 | | Fin Ray | 8 | 0 | Yellow | 447 |
| | | Longnose sucker | 418 | 964 | | Fin Ray | 12 | 0 | Yellow | 458 |
| | | Longnose sucker | 428 | 930 | | Fin Ray | 13 | 0 | Yellow | 450 |
| | | Longnose sucker | 398 | | | Fin Ray | 12 | 0 | | |
| | | Mountain whitefish | 178 | 56 | | | | 0 | | |
| | | Mountain whitefish | 117 | 14 | | | | 0 | | |
| | | Mountain whitefish | 252 | 180 | | | | 0 | Yellow | 466 |
| | | Mountain whitefish | 315 | 334 | | | | 0 | Yellow | 467 |
| | | Mountain whitefish | 326 | 396 | | | | 0 | Yellow | 1511 |
| | | Mountain whitefish | 337 | 432 | 8 | | | 0 | Yellow | 1512 |
| | | Mountain whitefish | 281 | 224 | | | | 0 | Yellow | 1513 |
| | | Mountain whitefish | 304 | 356 | | | | 0 | Yellow | 1515 |
| | | Mountain whitefish | 264 | 184 | | | | 0 | Yellow | 1516 |
| | | Mountain whitefish | 324 | 394 | | | | 0 | Yellow | 1517 |
| | | Mountain whitefish | 310 | 366 | 8 | | | 0 | Yellow | 1518 |
| | | Mountain whitefish | 331 | | | | | 0 | Yellow | 1519 |

Appendix C Table C1. Life history data for fish sampled during Phase I of the Peace River Fish Community Indexing Program, 2001

| Area and Waterbody | Site Label Sample Date and Kilometre | Common Name | Fork Length (mm) | Weight (gm) | Sexual Maturity | Age Structure | Age | Capt. Code | Tag Colour | Tag Number |
|--------------------|--|--------------------|---------------------|----------------|--------------------|------------------|-----|---------------|---------------|---------------|
| Zone 3 | Halfway River | | | | | | | | | |
| | ES0309 | 21/08/2001 | 102.0 | | | | | | | |
| | | Mountain whitefish | 318 | | 8 | | | 0 | Yellow | 1520 |
| | | Mountain whitefish | 353 | | 8 | | | 0 | Yellow | 1521 |
| | | Mountain whitefish | 344 | 468 | | | | 0 | Yellow | 1493 |
| | | Mountain whitefish | 301 | 274 | | | | 0 | Yellow | 1500 |
| | | Mountain whitefish | 314 | 390 | | | | 0 | | |
| | | Mountain whitefish | 368 | 544 | | | | 0 | Yellow | 1506 |
| | | Mountain whitefish | 358 | | | | | 0 | Yellow | 1522 |
| | | Mountain whitefish | 303 | | 8 | | | 0 | Yellow | 1523 |
| | | Mountain whitefish | 306 | | | | | 0 | Yellow | 1524 |
| | | Mountain whitefish | 319 | 352 | | | | 0 | Yellow | 1505 |
| | | Mountain whitefish | 328 | | | | | 0 | | |
| | | Mountain whitefish | 342 | | 8 | | | 0 | | |
| | | Mountain whitefish | 392 | 718 | | | | 0 | Yellow | 1494 |
| | | Mountain whitefish | 412 | 716 | 8 | | | 0 | Yellow | 1495 |
| | | Mountain whitefish | 296 | | 8 | | | 0 | | |
| | | Mountain whitefish | 296 | | | | | 0 | | |
| | | Mountain whitefish | 363 | | 8 | | | 0 | | |
| | | Mountain whitefish | 324 | 404 | | | | 0 | Yellow | 1496 |
| | | Mountain whitefish | 395 | 560 | | | | 0 | | |
| | | Mountain whitefish | 372 | 666 | | | | 0 | Yellow | 1497 |
| | | Mountain whitefish | 354 | 432 | | | | 0 | Yellow | 1498 |
| | | Mountain whitefish | 373 | 612 | | | | 0 | Yellow | 1499 |
| | | Mountain whitefish | 242 | | | | | 0 | | |
| | | Mountain whitefish | 296 | | 8 | | | 0 | | |
| | | Mountain whitefish | 387 | 628 | | | | 0 | Yellow | 1509 |
| | | Mountain whitefish | 300 | 312 | | | | 0 | Yellow | 1514 |
| | | Mountain whitefish | 270 | | | | | 0 | Yellow | 1525 |
| | | Mountain whitefish | 286 | 212 | | | | 0 | Yellow | 1502 |
| | | Mountain whitefish | 306 | 322 | 8 | | | 0 | Yellow | 1503 |
| | | Mountain whitefish | 331 | 474 | 8 | | | 0 | Yellow | 1504 |
| | | Mountain whitefish | 284 | 286 | | | | 0 | Yellow | 1510 |
| | | Mountain whitefish | 258 | 164 | | | | 0 | Yellow | 1501 |
| | | Mountain whitefish | 305 | 306 | 8 | | | 0 | Yellow | 1507 |
| | | Mountain whitefish | 380 | | | | | 0 | | |
| | | Mountain whitefish | 316 | 378 | | | | 0 | Yellow | 1508 |
| | ES0310 | 21/08/2001 | 99.0 | | | | | | | |
| | | Bull trout | 299 | 252 | | Fin Ray | | 0 | Yellow | 489 |
| | | Longnose sucker | 195 | | | Scale | 3 | 0 | | |
| | | Longnose sucker | 188 | | | | | 0 | | |
| | | Longnose sucker | 183 | | | | | 0 | | |
| | | Longnose sucker | 393 | | | | | 0 | Yellow | 468 |
| | | Longnose sucker | 355 | | | | | 0 | Yellow | 481 |
| | | Longnose sucker | 188 | | | Scale | 3 | 0 | | |
| | | Longnose sucker | 413 | | | | | 0 | Yellow | 469 |
| | | Longnose sucker | 425 | | | | | 0 | Yellow | 471 |
| | | Longnose sucker | 384 | | | | | 0 | Yellow | 482 |
| | | Longnose sucker | 278 | | | | | 0 | Yellow | 476 |
| | | Longnose sucker | 210 | | | | | 0 | | |
| | | Longnose sucker | 405 | | | | | 0 | Yellow | 472 |

Appendix C Table C1. Life history data for fish sampled during Phase I of the Peace River Fish Community Indexing Program, 2001

| Area and Waterbody | Site Label Sample Date and Kilometre | Common Name | Fork Length (mm) | Weight (gm) | Sexual Maturity | Age Structure | Age | Capt. Code | Tag Colour | Tag Number |
|--------------------|--------------------------------------|--------------------|------------------|-------------|-----------------|---------------|-----|------------|------------|------------|
| Zone 3 | Halfway River | | | | | | | | | |
| | ES0310 21/08/2001 | 99.0 | | | | | | | | |
| | | Longnose sucker | 157 | | | Scale | 2 | 0 | | |
| | | Mountain whitefish | 188 | | | | | 0 | | |
| | | Mountain whitefish | 358 | | | | | 0 | Yellow | 480 |
| | | Mountain whitefish | 120 | | | | | 0 | | |
| | | Mountain whitefish | 205 | | | | | 0 | | |
| | | Mountain whitefish | 336 | | | | | 0 | Yellow | 483 |
| | | Mountain whitefish | 131 | | | | | 0 | | |
| | | Mountain whitefish | 345 | | | | | 0 | Yellow | 485 |
| | | Mountain whitefish | 275 | | | | | 0 | Yellow | 479 |
| | | Mountain whitefish | 363 | | | | | 0 | Yellow | 474 |
| | | Mountain whitefish | 285 | | | | | 0 | Yellow | 488 |
| | | Mountain whitefish | 374 | | | | | 0 | Yellow | 487 |
| | | Mountain whitefish | 227 | | | | | 0 | | |
| | | Mountain whitefish | 189 | | | | | 0 | | |
| | | Mountain whitefish | 379 | | | | | 0 | Yellow | 478 |
| | | Mountain whitefish | 322 | | | | | 0 | Yellow | 486 |
| | | Mountain whitefish | 375 | | | | | 0 | Yellow | 477 |
| | | Mountain whitefish | 387 | | | | | 0 | Yellow | 475 |
| | | Mountain whitefish | 377 | | | | | 0 | Yellow | 484 |
| | | Mountain whitefish | 139 | | | | | 0 | | |
| | | Mountain whitefish | 323 | | | | | 0 | Yellow | 473 |
| | | Mountain whitefish | 402 | | | | | 0 | Yellow | 470 |
| | | Mountain whitefish | 245 | | | | | 0 | | |
| | | Mountain whitefish | 348 | | | | | 0 | Yellow | 1535 |
| | | Mountain whitefish | 340 | | | | | 0 | Yellow | 1541 |
| | | Mountain whitefish | 272 | | | | | 0 | Yellow | 1539 |
| | | Mountain whitefish | 319 | | | | | 0 | | |
| | | Mountain whitefish | 319 | | | | | 0 | Yellow | 1544 |
| | | Mountain whitefish | 336 | | 8 | | | 0 | Yellow | 1542 |
| | | Mountain whitefish | 340 | | | | | 0 | Yellow | 1526 |
| | | Mountain whitefish | 322 | | | | | 0 | Yellow | 1527 |
| | | Mountain whitefish | 446 | 994 | 8 | | | 0 | Yellow | 1528 |
| | | Mountain whitefish | 304 | | 8 | | | 0 | Yellow | 1537 |
| | | Mountain whitefish | 334 | | | | | 0 | Yellow | 1545 |
| | | Mountain whitefish | 312 | | | | | 0 | | |
| | | Mountain whitefish | 310 | | 8 | | | 0 | Yellow | 1540 |
| | | Mountain whitefish | 325 | | | | | 0 | | |
| | | Mountain whitefish | 295 | | | | | 0 | Yellow | 1547 |
| | | Mountain whitefish | 351 | | | | | 0 | Yellow | 1538 |
| | | Mountain whitefish | 300 | | | | | 0 | Yellow | 1550 |
| | | Mountain whitefish | 248 | | | | | 0 | | |
| | | Mountain whitefish | 335 | | | | | 0 | Yellow | 1549 |
| | | Mountain whitefish | 325 | | 8 | | | 0 | Yellow | 1548 |
| | | Mountain whitefish | 369 | | | | | 0 | Yellow | 1529 |
| | | Mountain whitefish | 342 | | | | | 0 | Yellow | 1546 |
| | | Mountain whitefish | 347 | | | | | 0 | | |
| | | Mountain whitefish | 374 | | 8 | | | 0 | Yellow | 1543 |
| | | Mountain whitefish | 336 | | | | | 0 | Yellow | 1533 |
| | | Mountain whitefish | 212 | | | | | 0 | | |

Appendix C Table C1. Life history data for fish sampled during Phase I of the Peace River Fish Community Indexing Program, 2001

| Area and Waterbody | Site Label Sample Date and Kilometre | Common Name | Fork Length (mm) | Weight (gm) | Sexual Maturity | Age Structure | Age | Capt. Code | Tag Colour | Tag Number |
|--------------------|--|--------------------|---------------------|----------------|--------------------|------------------|-----|---------------|---------------|---------------|
| Zone 3 | Halfway River | | | | | | | | | |
| | ES0310 | 21/08/2001 | 99.0 | | | | | | | |
| | | Mountain whitefish | 270 | | | | | 0 | | |
| | | Mountain whitefish | 421 | 844 | | | | 0 | Yellow | 1536 |
| | | Mountain whitefish | 372 | | 8 | | | 0 | | |
| | | Mountain whitefish | 313 | | | | | 0 | | |
| | | Mountain whitefish | 299 | | | | | 0 | | |
| | | Mountain whitefish | 322 | | 8 | | | 0 | Yellow | 1534 |
| | | Mountain whitefish | 311 | | | | | 0 | Yellow | 1532 |
| | | Mountain whitefish | 332 | | | | | 0 | Yellow | 1531 |
| | | Mountain whitefish | 369 | | | | | 0 | Yellow | 1530 |
| | ES0311 | 21/08/2001 | 87.0 | | | | | | | |
| | | Bull trout | 304 | 280 | | Fin Ray | | 0 | Yellow | 504 |
| | | Bull trout | 498 | 1800 | | Fin Ray | | 0 | Yellow | 490 |
| | | Longnose sucker | 385 | | | | | 0 | Yellow | 501 |
| | | Mountain whitefish | 409 | | | | | 0 | Yellow | 496 |
| | | Mountain whitefish | 271 | | | | | 0 | Yellow | 516 |
| | | Mountain whitefish | 329 | | | | | 0 | Yellow | 505 |
| | | Mountain whitefish | 282 | | | | | 0 | Yellow | 515 |
| | | Mountain whitefish | 364 | | | | | 0 | Yellow | 494 |
| | | Mountain whitefish | 294 | | | | | 0 | Yellow | 508 |
| | | Mountain whitefish | 282 | | | | | 0 | Yellow | 511 |
| | | Mountain whitefish | 256 | | | | | 0 | Yellow | 525 |
| | | Mountain whitefish | 359 | | | | | 0 | Yellow | 510 |
| | | Mountain whitefish | 402 | | | | | 0 | Yellow | 503 |
| | | Mountain whitefish | 422 | 926 | | | | 0 | Yellow | 491 |
| | | Mountain whitefish | 424 | | | | | 0 | Yellow | 509 |
| | | Mountain whitefish | 345 | | | | | 0 | Yellow | 495 |
| | | Mountain whitefish | 249 | | | | | 0 | | |
| | | Mountain whitefish | 180 | | | | | 0 | | |
| | | Mountain whitefish | 374 | | | | | 0 | Yellow | 502 |
| | | Mountain whitefish | 295 | | | | | 0 | Yellow | 512 |
| | | Mountain whitefish | 331 | | | | | 0 | Yellow | 497 |
| | | Mountain whitefish | 286 | | | | | 0 | Yellow | 513 |
| | | Mountain whitefish | 387 | | | | | 0 | Yellow | 514 |
| | | Mountain whitefish | | | | | | 0 | | |
| | | Mountain whitefish | 363 | | | | | 0 | Yellow | 493 |
| | | Mountain whitefish | 186 | | | | | 0 | | |
| | | Mountain whitefish | 266 | | | | | 0 | Yellow | 524 |
| | | Mountain whitefish | 84 | | | | | 0 | | |
| | | Mountain whitefish | 96 | | | | | 0 | | |
| | | Mountain whitefish | 271 | | | | | 0 | Yellow | 522 |
| | | Mountain whitefish | 249 | | | | | 0 | | |
| | | Mountain whitefish | 291 | | | | | 0 | Yellow | 521 |
| | | Mountain whitefish | 338 | | | | | 0 | Yellow | 519 |
| | | Mountain whitefish | 291 | | | | | 0 | Yellow | 518 |
| | | Mountain whitefish | 396 | | | | | 0 | Yellow | 517 |
| | | Mountain whitefish | 333 | | | | | 0 | Yellow | 506 |
| | | Mountain whitefish | 323 | | | | | 0 | Yellow | 500 |
| | | Mountain whitefish | 202 | | | | | 0 | | |
| | | Mountain whitefish | 272 | | | | | 0 | Yellow | 498 |

Appendix C Table C1. Life history data for fish sampled during Phase I of the Peace River Fish Community Indexing Program, 2001

| Area and Waterbody | Site Label Sample Date and Kilometre | Common Name | Fork Length (mm) | Weight (gm) | Sexual Maturity | Age Structure | Age | Capt. Code | Tag Colour | Tag Number |
|--------------------|--|--------------------|---------------------|----------------|--------------------|------------------|-----|---------------|---------------|---------------|
| Zone 3 | Halfway River | | | | | | | | | |
| | ES0311 21/08/2001 | 87.0 | | | | | | | | |
| | | Mountain whitefish | 336 | | | | | 0 | Yellow | 492 |
| | | Mountain whitefish | 399 | | | | | 0 | Yellow | 499 |
| | | Mountain whitefish | 144 | | | | | 0 | | |
| | | Mountain whitefish | 396 | | | | | 0 | Yellow | 507 |
| | | Bull trout | 385 | 520 | | | | 0 | Yellow | 1654 |
| | | Bull trout | 518 | 1130 | | Fin Ray | 5 | 0 | Yellow | 1655 |
| | | Largescale sucker | 180 | 70 | | | | 0 | | |
| | | Longnose sucker | 447 | 1058 | | | | 0 | Yellow | 1641 |
| | | Longnose sucker | 370 | 652 | | | | 0 | Yellow | 1644 |
| | | Mountain whitefish | 460 | 1106 | | | | 0 | Yellow | 1642 |
| | | Mountain whitefish | 422 | | | | | 0 | Yellow | 1643 |
| | | Mountain whitefish | 271 | 204 | | | | 0 | Yellow | 1651 |
| | | Mountain whitefish | 312 | 302 | | | | 0 | Yellow | 1653 |
| | | Mountain whitefish | 190 | 66 | | | | 0 | | |
| | | Mountain whitefish | 207 | 94 | | | | 0 | | |
| | | Mountain whitefish | 380 | 550 | | | | 0 | Yellow | 1652 |
| | | Mountain whitefish | 294 | 256 | 8 | | | 0 | Yellow | 1647 |
| | | Mountain whitefish | 160 | 36 | | | | 0 | | |
| | | Mountain whitefish | 244 | 152 | | | | 0 | | |
| | | Mountain whitefish | 440 | 1110 | | | | 0 | Yellow | 1645 |
| | | Mountain whitefish | 163 | 42 | | | | 0 | | |
| | | Mountain whitefish | 354 | 514 | | | | 0 | Yellow | 1649 |
| | | Mountain whitefish | 256 | 172 | | | | 0 | Yellow | 1650 |
| | | Mountain whitefish | 294 | 228 | 8 | | | 0 | Yellow | 1648 |
| | | Mountain whitefish | 335 | 442 | | | | 0 | Yellow | 1646 |
| | ES0312 21/08/2001 | 84.0 | | | | | | | | |
| | | Arctic grayling | 355 | 556 | 10 | | | 0 | Yellow | 560 |
| | | Arctic grayling | 393 | | 10 | | | 0 | Yellow | 577 |
| | | Arctic grayling | 357 | 520 | 10 | | | 0 | Yellow | 561 |
| | | Arctic grayling | 272 | 260 | | | | 0 | Yellow | 530 |
| | | Arctic grayling | 355 | 552 | 10 | | | 0 | Yellow | 533 |
| | | Bull trout | 276 | 186 | | | | 0 | Yellow | 570 |
| | | Bull trout | 153 | 34 | | Scale | 2 | 0 | | |
| | | Bull trout | 349 | 412 | | Fin Ray | | 0 | Yellow | 585 |
| | | Bull trout | 310 | 322 | | Fin Ray | | 0 | Yellow | 586 |
| | | Largescale sucker | 124 | 22 | | Scale | 2 | 0 | | |
| | | Longnose sucker | 413 | | | | | 0 | Yellow | 549 |
| | | Longnose sucker | 321 | | | | | 0 | Yellow | 532 |
| | | Longnose sucker | 344 | | | | | 0 | Yellow | 547 |
| | | Longnose sucker | 397 | | | | | 0 | Yellow | 562 |
| | | Longnose sucker | 401 | | | | | 0 | Yellow | 581 |
| | | Longnose sucker | 230 | | | | | 0 | | |
| | | Longnose sucker | 245 | | | | | 0 | | |
| | | Longnose sucker | 201 | | | | | 0 | | |
| | | Longnose sucker | 143 | | | | | 0 | | |
| | | Longnose sucker | 260 | | | | | 0 | Yellow | 559 |
| | | Longnose sucker | 339 | | | | | 0 | Yellow | 558 |
| | | Mountain whitefish | 274 | | | | | 0 | Yellow | 587 |
| | | Mountain whitefish | 337 | | | | | 0 | Yellow | 543 |

Appendix C Table C1. Life history data for fish sampled during Phase I of the Peace River Fish Community Indexing Program, 2001

| Area and Waterbody | Site Label Sample Date and Kilometre | Common Name | Fork Length (mm) | Weight (gm) | Sexual Maturity | Age Structure | Age | Capt. Code | Tag Colour | Tag Number |
|--------------------|--|--------------------|---------------------|----------------|--------------------|------------------|-----|---------------|---------------|---------------|
| Zone 3 | Halfway River | | | | | | | | | |
| | ES0312 21/08/2001 | 84.0 | | | | | | | | |
| | | Mountain whitefish | 250 | | | | | 0 | Yellow | 544 |
| | | Mountain whitefish | 354 | | | | | 0 | Yellow | 545 |
| | | Mountain whitefish | 317 | | | | | 0 | Yellow | 548 |
| | | Mountain whitefish | 380 | | | | | 0 | Yellow | 550 |
| | | Mountain whitefish | 300 | | | | | 0 | Yellow | 539 |
| | | Mountain whitefish | 357 | | | | | 0 | Yellow | 568 |
| | | Mountain whitefish | 269 | | | | | 0 | Yellow | 557 |
| | | Mountain whitefish | 329 | | | | | 0 | Yellow | 540 |
| | | Mountain whitefish | 357 | | | | | 0 | Yellow | 552 |
| | | Mountain whitefish | 345 | | | | | 0 | Yellow | 529 |
| | | Mountain whitefish | 353 | | | | | 0 | Yellow | 531 |
| | | Mountain whitefish | 404 | | | | | 0 | Yellow | 556 |
| | | Mountain whitefish | 242 | | | | | 0 | | |
| | | Mountain whitefish | 351 | | | | | 0 | Yellow | 555 |
| | | Mountain whitefish | 291 | | | | | 0 | Yellow | 553 |
| | | Mountain whitefish | 167 | | | | | 0 | | |
| | | Mountain whitefish | 393 | | | | | 0 | Yellow | 554 |
| | | Mountain whitefish | 271 | | | | | 0 | Yellow | 542 |
| | | Mountain whitefish | 448 | 1290 | | | | 0 | Yellow | 528 |
| | | Mountain whitefish | 247 | | | | | 0 | | |
| | | Mountain whitefish | 192 | | | | | 0 | | |
| | | Mountain whitefish | 309 | | | | | 0 | Yellow | 535 |
| | | Mountain whitefish | 359 | | | | | 0 | Yellow | 536 |
| | | Mountain whitefish | 325 | | | | | 0 | Yellow | 537 |
| | | Mountain whitefish | 417 | | | | | 0 | Yellow | 538 |
| | | Mountain whitefish | 356 | | | | | 0 | Yellow | 546 |
| | | Mountain whitefish | 357 | | | | | 0 | Yellow | 551 |
| | | Mountain whitefish | 311 | | | | | 0 | Yellow | 541 |
| | | Mountain whitefish | 187 | | | | | 0 | | |
| | | Mountain whitefish | 183 | 82 | | | | 0 | | |
| | | Mountain whitefish | 203 | | | | | 0 | | |
| | | Mountain whitefish | 257 | | | | | 0 | Yellow | 565 |
| | | Mountain whitefish | 431 | | | | | 0 | Yellow | 563 |
| | | Mountain whitefish | 257 | | | | | 0 | Yellow | 567 |
| | | Mountain whitefish | 246 | | | | | 0 | | |
| | | Mountain whitefish | 197 | | | | | 0 | | |
| | | Mountain whitefish | 195 | | | | | 0 | | |
| | | Mountain whitefish | 250 | | | | | 0 | Yellow | 576 |
| | | Mountain whitefish | 325 | | | | | 0 | Yellow | 564 |
| | | Mountain whitefish | 252 | | | | | 0 | Yellow | 575 |
| | | Mountain whitefish | 253 | | | | | 0 | Yellow | 569 |
| | | Mountain whitefish | 132 | | | | | 0 | | |
| | | Mountain whitefish | 193 | | | | | 0 | | |
| | | Mountain whitefish | 255 | | | | | 0 | Yellow | 571 |
| | | Mountain whitefish | 184 | | | | | 0 | | |
| | | Mountain whitefish | 261 | | | | | 0 | Yellow | 572 |
| | | Mountain whitefish | 307 | | | | | 0 | Yellow | 573 |
| | | Mountain whitefish | 186 | | | | | 0 | | |
| | | Mountain whitefish | 286 | | | | | 0 | Yellow | 574 |

Appendix C Table C1. Life history data for fish sampled during Phase I of the Peace River Fish Community Indexing Program, 2001

| Area and Waterbody | Site Label Sample Date and Kilometre | Common Name | Fork Length (mm) | Weight (gm) | Sexual Maturity | Age Structure | Age | Capt. Code | Tag Colour | Tag Number |
|--------------------|--|--------------------|---------------------|----------------|--------------------|------------------|-----|---------------|---------------|---------------|
| Zone 3 | Halfway River | | | | | | | | | |
| | ES0312 21/08/2001 | 84.0 | | | | | | | | |
| | | Mountain whitefish | 262 | | | | | 0 | Yellow | 579 |
| | | Mountain whitefish | 286 | | | | | 0 | Yellow | 580 |
| | | Mountain whitefish | 354 | | | | | 0 | Yellow | 527 |
| | | Mountain whitefish | 253 | | | | | 0 | Yellow | 583 |
| | | Mountain whitefish | 276 | | | | | 0 | Yellow | 566 |
| | | Mountain whitefish | 268 | | | | | 0 | Yellow | 578 |
| | | Mountain whitefish | 255 | | | | | 0 | Yellow | 584 |
| | | Mountain whitefish | 205 | | | | | 0 | | |
| | | Mountain whitefish | 342 | | | | | 0 | Yellow | 582 |
| | | Mountain whitefish | 267 | | | | | 0 | Yellow | 566 |
| | | Mountain whitefish | 204 | | | | | 0 | | |
| | | Mountain whitefish | 208 | | | | | 0 | | |
| | | Mountain whitefish | 211 | | | | | 0 | | |
| | | Mountain whitefish | 195 | | | | | 0 | | |
| | | Mountain whitefish | 258 | | | | | 0 | Yellow | 589 |
| | | Mountain whitefish | 256 | | | | | 0 | Yellow | 588 |
| | | Mountain whitefish | 241 | | | | | 0 | | |
| | | Mountain whitefish | 204 | | | | | 0 | | |
| | | Northern pike | 605 | 1574 | | Fin Ray | 4 | 0 | Yellow | 534 |
| | | Rainbow trout | 213 | 112 | | | | 0 | | |
| | | Arctic grayling | 315 | | | | | 0 | Yellow | 1656 |
| | | Arctic grayling | 364 | 610 | | | | 0 | Yellow | 1658 |
| | | Arctic grayling | 361 | 212 | | | | 0 | Yellow | 1684 |
| | | Bull trout | 381 | 600 | | | | 0 | Yellow | 1688 |
| | | Bull trout | 417 | 662 | | | | 0 | Yellow | 1687 |
| | | Bull trout | 375 | 488 | | Fin Ray | 5 | 0 | Yellow | 1683 |
| | | Bull trout | 276 | 214 | | Fin Ray | 2 | 0 | Yellow | 1673 |
| | | Bull trout | 192 | 68 | | Fin Ray | 2 | 0 | | |
| | | Largescale sucker | 495 | | | | | 0 | Yellow | 1668 |
| | | Longnose sucker | 457 | | | | | 0 | Yellow | 1670 |
| | | Longnose sucker | 393 | 784 | | | | 0 | Yellow | 1680 |
| | | Longnose sucker | 417 | | | | | 0 | Yellow | 1660 |
| | | Longnose sucker | 393 | | | | | 0 | Yellow | 1661 |
| | | Longnose sucker | 369 | | | | | 0 | Yellow | 1669 |
| | | Longnose sucker | 410 | | | | | 0 | Yellow | 1678 |
| | | Longnose sucker | 378 | | | | | 0 | Yellow | 1682 |
| | | Longnose sucker | 280 | 244 | | | | 0 | | |
| | | Longnose sucker | 339 | 490 | | | | 0 | Yellow | 1677 |
| | | Longnose sucker | 371 | | | | | 0 | Yellow | 1667 |
| | | Longnose sucker | 341 | 550 | | | | 0 | | |
| | | Mountain whitefish | 261 | | | | | 0 | Yellow | 1689 |
| | | Mountain whitefish | 198 | 76 | | | | 0 | | |
| | | Mountain whitefish | 266 | | | | | 2 | Yellow | 567 |
| | | Mountain whitefish | 459 | 1094 | | | | 0 | Yellow | 1657 |
| | | Mountain whitefish | 381 | 646 | | | | 0 | Yellow | 1659 |
| | | Mountain whitefish | 402 | | | | | 0 | Yellow | 1662 |
| | | Mountain whitefish | 380 | 638 | | | | 0 | Yellow | 1663 |
| | | Mountain whitefish | 400 | 698 | | | | 0 | Yellow | 1664 |
| | | Mountain whitefish | 348 | | | | | 0 | Yellow | 1665 |

Appendix C Table C1. Life history data for fish sampled during Phase I of the Peace River Fish Community Indexing Program, 2001

| Area and Waterbody | Site Label Sample Date and Kilometre | Common Name | Fork Length (mm) | Weight (gm) | Sexual Maturity | Age Structure | Age | Capt. Code | Tag Colour | Tag Number |
|--------------------|--|--------------------|---------------------|----------------|--------------------|------------------|-----|---------------|---------------|---------------|
| Zone 3 | Halfway River | | | | | | | | | |
| | ES0312 21/08/2001 | 84.0 | | | | | | | | |
| | | Mountain whitefish | 417 | 962 | | | | 0 | Yellow | 1666 |
| | | Mountain whitefish | 393 | 708 | | | | 0 | Yellow | 1679 |
| | | Mountain whitefish | 283 | | | 17 | | 0 | Yellow | 1694 |
| | | Mountain whitefish | 277 | | | 8 | | 0 | Yellow | 1686 |
| | | Mountain whitefish | 411 | 828 | | | | 0 | Yellow | 1693 |
| | | Mountain whitefish | 205 | | | | | 0 | | |
| | | Mountain whitefish | 200 | | | | | 0 | | |
| | | Mountain whitefish | 267 | | | | | 0 | | |
| | | Mountain whitefish | 153 | | | | | 0 | | |
| | | Mountain whitefish | 327 | | | 8 | | 0 | Yellow | 1676 |
| | | Mountain whitefish | 298 | | | | | 0 | Yellow | 1690 |
| | | Mountain whitefish | | | | | | 0 | | |
| | | Mountain whitefish | 274 | | | | | 0 | Yellow | 1691 |
| | | Mountain whitefish | 247 | | | | | 0 | | |
| | | Mountain whitefish | 152 | | | | | 0 | | |
| | | Mountain whitefish | 212 | | | | | 0 | | |
| | | Mountain whitefish | 293 | | | | | 2 | Yellow | 553 |
| | | Mountain whitefish | 349 | | | | | 0 | Yellow | 1671 |
| | | Mountain whitefish | 429 | 916 | | | | 0 | Yellow | 1674 |
| | | Mountain whitefish | 150 | | | | | 0 | | |
| | | Mountain whitefish | 267 | | | | | 0 | Yellow | 1692 |
| | | Mountain whitefish | 332 | | | | | 0 | Yellow | 1675 |
| | | Mountain whitefish | 334 | | | 8 | | 0 | | |
| | | Mountain whitefish | 287 | | | | | 0 | Yellow | 1672 |
| | | Mountain whitefish | 142 | 32 | | | | 0 | | |
| | | Mountain whitefish | 420 | 806 | | | | 0 | Yellow | 1681 |
| | | Mountain whitefish | 387 | | | | | 0 | Yellow | 1685 |
| | | Mountain whitefish | 303 | | | | | 0 | | |
| | | Mountain whitefish | 163 | | | | | 0 | | |
| | ES0313 21/08/2001 | 87.3 | | | | | | | | |
| | | Largescale sucker | 468 | | | | | 0 | | |
| | | Longnose sucker | 186 | | | | | 0 | | |
| | | Longnose sucker | 195 | | | | | 0 | | |
| | | Mountain whitefish | 252 | | | | | 0 | Yellow | 523 |
| | | Mountain whitefish | 255 | | | | | 0 | Yellow | 526 |
| | | Mountain whitefish | 311 | | | | | 0 | Yellow | 520 |
| | | Mountain whitefish | 249 | | | | | 0 | | |
| | | Mountain whitefish | 124 | | | | | 0 | | |
| | | Mountain whitefish | 242 | | | | | 0 | | |
| | | Mountain whitefish | 220 | | | | | 0 | | |
| | | Longnose sucker | 406 | 866 | | | | 0 | Yellow | 1639 |
| | | Longnose sucker | 419 | 920 | | | | 0 | Yellow | 1636 |
| | | Longnose sucker | 393 | 826 | | | | 0 | Yellow | 1638 |
| | | Mountain whitefish | 406 | 668 | | | | 0 | Yellow | 1640 |
| | | Mountain whitefish | 416 | 738 | | | | 0 | Yellow | 1637 |
| | GN0301 16/10/2001 | 107.0 | | | | | | | | |
| | | Arctic grayling | 335 | | | | | 0 | | |
| | | Longnose sucker | 206 | | | | | 0 | | |
| | | Longnose sucker | 380 | | | | | 0 | | |

Appendix C Table C1. Life history data for fish sampled during Phase I of the Peace River Fish Community Indexing Program, 2001

| Area and Waterbody | Site Label Sample Date and Kilometre | Common Name | Fork Length (mm) | Weight (gm) | Sexual Maturity | Age Structure | Age | Capt. Code | Tag Colour | Tag Number |
|----------------------|--|-----------------------------|---------------------|----------------|--------------------|------------------|-----|---------------|---------------|---------------|
| Zone 3 Halfway River | | | | | | | | | | |
| | GN0301 16/10/2001 | 107.0 Mountain whitefish | 97 | | | | | 0 | | |
| | GN0302 17/10/2001 | 99.0 Bull trout | 515 | | | | | 0 | | |
| | | Largescale sucker | 216 | | | | | 0 | | |
| | | Mountain whitefish | 349 | | | | | 0 | | |
| | | Mountain whitefish | 387 | | | | | 0 | | |
| Zone 4 Peace River | | | | | | | | | | |
| | BS0401 14/10/2001 | 143.1 Kokanee | 75 | | | | | 0 | | |
| | | Kokanee | 71 | | | | | 0 | | |
| | | Kokanee | 71 | | | | | 0 | | |
| | BS0402 19/08/2001 | 136.5 Longnose sucker | 248 | | | | | 0 | | |
| | | Kokanee | 76 | | | | | 0 | | |
| | | Kokanee | 68 | | | | | 0 | | |
| | | Kokanee | 77 | | | | | 0 | | |
| | | Kokanee | 69 | | | | | 0 | | |
| | | Kokanee | 62 | | | | | 0 | | |
| | | Kokanee | 72 | | | | | 0 | | |
| | | Kokanee | 67 | | | | | 0 | | |
| | | Kokanee | 72 | | | | | 0 | | |
| | | Kokanee | 63 | | | | | 0 | | |
| | | Kokanee | 66 | | | | | 0 | | |
| | | Kokanee | 65 | | | | | 0 | | |
| | | Kokanee | 64 | | | | | 0 | | |
| | BS0404 19/08/2001 | 128.7 Largescale sucker | 80 | | | | | 0 | | |
| | | Longnose sucker | 128 | | | | | 0 | | |
| | | Longnose sucker | 127 | | | | | 0 | | |
| | | Longnose sucker | 99 | | | | | 0 | | |
| | | Northern pikeminnow | 201 | | | | | 0 | | |
| | | Northern pikeminnow | 95 | | | | | 0 | | |
| | | Northern pikeminnow | 100 | | | | | 0 | | |
| | | Northern pikeminnow | 107 | | | | | 0 | | |
| | | Northern pikeminnow | 102 | | | | | 0 | | |
| | | Northern pikeminnow | 100 | | | | | 0 | | |
| | | Northern pikeminnow | 146 | | | | | 0 | | |
| | | Northern pikeminnow | 71 | | | | | 0 | | |
| | | Redside shiner | 84 | | | | | 0 | | |
| | | Redside shiner | 104 | | | | | 0 | | |
| | | Redside shiner | 84 | | | | | 0 | | |
| | | Redside shiner | 72 | | | | | 0 | | |
| | | Redside shiner | 101 | | | | | 0 | | |
| | | Redside shiner | 98 | | | | | 0 | | |
| | | Redside shiner | 92 | | | | | 0 | | |
| | | Redside shiner | 80 | | | | | 0 | | |
| | | Redside shiner | 97 | | | | | 0 | | |
| | | Redside shiner | 58 | | | | | 0 | | |
| | | Redside shiner | 64 | | | | | 0 | | |

Appendix C Table C1. Life history data for fish sampled during Phase I of the Peace River Fish Community Indexing Program, 2001

| Area and Waterbody | Site Label Sample Date and Kilometre | Common Name | Fork Length (mm) | Weight (gm) | Sexual Maturity | Age Structure | Age | Capt. Code | Tag Colour | Tag Number |
|--------------------|--------------------------------------|----------------|------------------|-------------|-----------------|---------------|-----|------------|------------|------------|
| Zone 4 Peace River | | | | | | | | | | |
| | BS0404 19/08/2001 | 128.7 | | | | | | | | |
| | | Redside shiner | 59 | | | | | 0 | | |
| | | Redside shiner | 56 | | | | | 0 | | |
| | | Redside shiner | 64 | | | | | 0 | | |
| | | Redside shiner | 61 | | | | | 0 | | |
| | | Redside shiner | 81 | | | | | 0 | | |
| | | Redside shiner | 81 | | | | | 0 | | |
| | | Redside shiner | 97 | | | | | 0 | | |
| | | Redside shiner | 82 | | | | | 0 | | |
| | | Redside shiner | 84 | | | | | 0 | | |
| | | Redside shiner | 108 | | | | | 0 | | |
| | | Redside shiner | 74 | | | | | 0 | | |
| | | Redside shiner | 65 | | | | | 0 | | |
| | | Redside shiner | 61 | | | | | 0 | | |
| | | Redside shiner | 117 | | | | | 0 | | |
| | | Redside shiner | 115 | | | | | 0 | | |
| | | Redside shiner | 86 | | | | | 0 | | |
| | | Redside shiner | 54 | | | | | 0 | | |
| | | Redside shiner | 87 | | | | | 0 | | |
| | | Redside shiner | 81 | | | | | 0 | | |
| | | Redside shiner | 80 | | | | | 0 | | |
| | | Redside shiner | 82 | | | | | 0 | | |
| | | Redside shiner | 66 | | | | | 0 | | |
| | | Redside shiner | 103 | | | | | 0 | | |
| | | Redside shiner | 69 | | | | | 0 | | |
| | | Redside shiner | 76 | | | | | 0 | | |
| | | Redside shiner | 59 | | | | | 0 | | |
| | | Redside shiner | 56 | | | | | 0 | | |
| | | Redside shiner | 88 | | | | | 0 | | |
| | | Redside shiner | 95 | | | | | 0 | | |
| | | Redside shiner | 81 | | | | | 0 | | |
| | | Redside shiner | 61 | | | | | 0 | | |
| | | Redside shiner | 81 | | | | | 0 | | |
| | | Redside shiner | 64 | | | | | 0 | | |
| | | Redside shiner | 65 | | | | | 0 | | |
| | | Redside shiner | 84 | | | | | 0 | | |
| | | Redside shiner | 86 | | | | | 0 | | |
| | | Redside shiner | 56 | | | | | 0 | | |
| | | Redside shiner | 79 | | | | | 0 | | |
| | | Redside shiner | 84 | | | | | 0 | | |
| | | Redside shiner | 78 | | | | | 0 | | |
| | | Redside shiner | 95 | | | | | 0 | | |
| | | Redside shiner | 71 | | | | | 0 | | |
| | | Redside shiner | 96 | | | | | 0 | | |
| | | Redside shiner | 63 | | | | | 0 | | |
| | | Redside shiner | 63 | | | | | 0 | | |
| | | Redside shiner | 78 | | | | | 0 | | |
| | | Redside shiner | 60 | | | | | 0 | | |
| | | Redside shiner | 100 | | | | | 0 | | |
| | | Redside shiner | 72 | | | | | 0 | | |

Appendix C Table C1. Life history data for fish sampled during Phase I of the Peace River Fish Community Indexing Program, 2001

| Area and Waterbody | Site Label Sample Date and Kilometre | Common Name | Fork Length (mm) | Weight (gm) | Sexual Maturity | Age Structure | Age | Capt. Code | Tag Colour | Tag Number |
|--------------------|--|--------------------|---------------------|----------------|--------------------|------------------|-----|---------------|---------------|---------------|
| Zone 4 Peace River | | | | | | | | | | |
| | BS0404 | 19/08/2001 | 128.7 | | | | | | | |
| | | Redside shiner | 86 | | | | | 0 | | |
| | | Redside shiner | 58 | | | | | 0 | | |
| | BS0405 | 14/10/2001 | 126.1 | | | | | | | |
| | | Mountain whitefish | 81 | | | | | 0 | | |
| | BS0407 | 19/08/2001 | 131.2 | | | | | | | |
| | | Longnose sucker | 67 | | | | | 0 | | |
| | | Longnose sucker | 102 | | | | | 0 | | |
| | | Longnose sucker | 76 | | | | | 0 | | |
| | | Mountain whitefish | 59 | | | | | 0 | | |
| | | Mountain whitefish | 43 | | | | | 0 | | |
| | | Mountain whitefish | 43 | | | | | 0 | | |
| | | Mountain whitefish | 63 | | | | | 0 | | |
| | | Sculpin spp. | 14 | | | | | 0 | | |
| | | Spoonhead sculpin | 36 | | | | | 0 | | |
| | | Spoonhead sculpin | 29 | | | | | 0 | | |
| | | Spoonhead sculpin | 26 | | | | | 0 | | |
| | | Sucker spp. | 29 | | | | | 0 | | |
| | | Sucker spp. | 35 | | | | | 0 | | |
| | | Sucker spp. | 24 | | | | | 0 | | |
| | | Sucker spp. | 22 | | | | | 0 | | |
| | | Sucker spp. | 48 | | | | | 0 | | |
| | | Sucker spp. | 34 | | | | | 0 | | |
| | | Sucker spp. | 31 | | | | | 0 | | |
| | | Sucker spp. | 27 | | | | | 0 | | |
| | | Sucker spp. | 25 | | | | | 0 | | |
| | | Sucker spp. | 31 | | | | | 0 | | |
| | | Sucker spp. | 34 | | | | | 0 | | |
| | | Sucker spp. | 38 | | | | | 0 | | |
| | | Sucker spp. | 28 | | | | | 0 | | |
| | | Kokanee | 73 | | | | | 0 | | |
| | | Kokanee | 70 | | | | | 0 | | |
| | | Kokanee | 75 | | | | | 0 | | |
| | | Kokanee | 75 | | | | | 0 | | |
| | | Kokanee | 61 | | | Scale | 0 | 0 | | |
| | | Kokanee | 82 | | | | | 0 | | |
| | | Kokanee | 74 | | | | | 0 | | |
| | | Kokanee | 67 | | | | | 0 | | |
| | | Kokanee | 91 | | | Scale | 0 | 0 | | |
| | | Kokanee | 71 | | | | | 0 | | |
| | | Kokanee | 60 | | | | | 0 | | |
| | | Kokanee | 61 | | | | | 0 | | |
| | | Kokanee | 72 | | | | | 0 | | |
| | | Kokanee | 63 | | | | | 0 | | |
| | | Kokanee | 82 | | | | | 0 | | |
| | | Kokanee | 64 | | | | | 0 | | |
| | | Kokanee | 83 | | | | | 0 | | |
| | | Spoonhead sculpin | 24 | | | | | 0 | | |
| | | Spoonhead sculpin | 31 | | | | | 0 | | |
| | | Sucker spp. | 40 | | | | | 0 | | |

Appendix C Table C1. Life history data for fish sampled during Phase I of the Peace River Fish Community Indexing Program, 2001

| Area and Waterbody | Site Label Sample Date and Kilometre | Common Name | Fork Length (mm) | Weight (gm) | Sexual Maturity | Age Structure | Age | Capt. Code | Tag Colour | Tag Number |
|--------------------|--|---------------------|---------------------|----------------|--------------------|------------------|-----|---------------|---------------|---------------|
| Zone 4 Peace River | | | | | | | | | | |
| | BS0407 19/08/2001 | 131.2 | | | | | | | | |
| | | Sucker spp. | 22 | | | | | 0 | | |
| | | Sucker spp. | 35 | | | | | 0 | | |
| | | Sucker spp. | 36 | | | | | 0 | | |
| | | Sucker spp. | 22 | | | | | 0 | | |
| | | Sucker spp. | 35 | | | | | 0 | | |
| | | Sucker spp. | 41 | | | | | 0 | | |
| | EF0401 19/08/2001 | 143.1 | | | | | | | | |
| | | Longnose dace | 58 | | | | | 0 | | |
| | | Longnose dace | 100 | | | | | 0 | | |
| | | Longnose dace | 59 | | | | | 0 | | |
| | | Longnose dace | 99 | | | | | 0 | | |
| | | Longnose dace | 78 | | | | | 0 | | |
| | | Longnose sucker | 137 | | | | | 0 | | |
| | | Longnose sucker | 165 | | | | | 0 | | |
| | | Longnose sucker | 132 | | | | | 0 | | |
| | | Longnose sucker | 104 | | | | | 0 | | |
| | | Mountain whitefish | 74 | | | | | 0 | | |
| | | Prickly sculpin | 85 | | | | | 0 | | |
| | | Prickly sculpin | 61 | | | | | 0 | | |
| | | Prickly sculpin | 57 | | | | | 0 | | |
| | | Prickly sculpin | 52 | | | | | 0 | | |
| | | Prickly sculpin | 75 | | | | | 0 | | |
| | | Prickly sculpin | 61 | | | | | 0 | | |
| | | Prickly sculpin | 59 | | | | | 0 | | |
| | | Prickly sculpin | 69 | | | | | 0 | | |
| | | Prickly sculpin | 86 | | | | | 0 | | |
| | | Prickly sculpin | 50 | | | | | 0 | | |
| | | Rainbow trout | 131 | | | | | 0 | | |
| | | Slimy sculpin | 62 | | | | | 0 | | |
| | | Slimy sculpin | 84 | | | | | 0 | | |
| | | Slimy sculpin | 59 | | | | | 0 | | |
| | | Kokanee | 155 | | | | | 0 | | |
| | | Kokanee | 67 | | | | | 0 | | |
| | | Kokanee | 74 | | | | | 0 | | |
| | | Kokanee | 118 | | | | | 0 | | |
| | | Longnose sucker | 111 | | | | | 0 | | |
| | | Prickly sculpin | 103 | | | | | 0 | | |
| | | Rainbow trout | 180 | | | | | 0 | | |
| | | Rainbow trout | 194 | | | | | 0 | | |
| | | Rainbow trout | 65 | | | | | 0 | | |
| | | Rainbow trout | 42 | | | | | 0 | | |
| | | Slimy sculpin | 74 | | | | | 0 | | |
| | EF0402 19/08/2001 | 136.6 | | | | | | | | |
| | | Longnose sucker | 177 | | | | | 0 | | |
| | | Longnose sucker | 225 | | | | | 0 | | |
| | | Longnose sucker | 226 | | | | | 0 | | |
| | | Northern pikeminnow | 180 | | | | | 0 | | |
| | | Northern pikeminnow | 24 | | | | | 4 | | |
| | | Redside shiner | 88 | | | | | 0 | | |

Appendix C Table C1. Life history data for fish sampled during Phase I of the Peace River Fish Community Indexing Program, 2001

| Area and Waterbody | Site Label Sample Date and Kilometre | Common Name | Fork Length (mm) | Weight (gm) | Sexual Maturity | Age Structure | Age | Capt. Code | Tag Colour | Tag Number |
|--------------------|--|--------------------|---------------------|----------------|--------------------|------------------|-----|---------------|---------------|---------------|
| Zone 4 Peace River | | | | | | | | | | |
| | EF0402 19/08/2001 136.6 | Redside shiner | 88 | | | | | 0 | | |
| | | Redside shiner | 86 | | | | | 0 | | |
| | | Redside shiner | 79 | | | | | 0 | | |
| | | Redside shiner | 72 | | | | | 0 | | |
| | | Redside shiner | 66 | | | | | 0 | | |
| | | Redside shiner | 88 | | | | | 0 | | |
| | | Redside shiner | 76 | | | | | 0 | | |
| | | Redside shiner | 66 | | | | | 0 | | |
| | | Slimy sculpin | 38 | | | | | 4 | | |
| | | Bull trout | 223 | | | | | 0 | | |
| | | Kokanee | 86 | | | | | 0 | | |
| | | Kokanee | 161 | | | | | 0 | | |
| | | Kokanee | 167 | | | | | 0 | | |
| | | Kokanee | 84 | | | | | 0 | | |
| | | Kokanee | 67 | | | | | 0 | | |
| | | Kokanee | 76 | | | | | 0 | | |
| | | Longnose sucker | 104 | | | | | 0 | | |
| | | Longnose sucker | 93 | | | | | 0 | | |
| | | Longnose sucker | 115 | | | | | 0 | | |
| | | Mountain whitefish | 84 | | | | | 0 | | |
| | | Mountain whitefish | 102 | | | | | 0 | | |
| | | Redside shiner | 94 | | | | | 0 | | |
| | | Slimy sculpin | 44 | | | | | 0 | | |
| | | Slimy sculpin | 76 | | | | | 0 | | |
| | EF0403 19/08/2001 128.9 | Lake chub | 72 | | | | | 0 | | |
| | | Largescale sucker | 206 | | | | | 0 | | |
| | | Largescale sucker | 308 | | | | | 0 | | |
| | | Largescale sucker | 326 | | | | | 0 | | |
| | | Largescale sucker | 356 | | | | | 0 | | |
| | | Largescale sucker | 242 | | | | | 0 | | |
| | | Longnose dace | 85 | | | | | 0 | | |
| | | Longnose dace | 62 | | | | | 0 | | |
| | | Longnose dace | 59 | | | | | 0 | | |
| | | Longnose sucker | 196 | | | | | 0 | | |
| | | Longnose sucker | 144 | | | | | 0 | | |
| | | Longnose sucker | 237 | | | | | 0 | | |
| | | Longnose sucker | 257 | | | | | 0 | | |
| | | Longnose sucker | 212 | | | | | 0 | | |
| | | Longnose sucker | 157 | | | | | 0 | | |
| | | Longnose sucker | 136 | | | | | 0 | | |
| | | Longnose sucker | 101 | | | | | 0 | | |
| | | Longnose sucker | 149 | | | | | 0 | | |
| | | Longnose sucker | 87 | | | | | 0 | | |
| | | Longnose sucker | 220 | | | | | 0 | | |
| | | Longnose sucker | 240 | | | | | 0 | | |
| | | Longnose sucker | 243 | | | | | 0 | | |
| | | Longnose sucker | 149 | | | | | 0 | | |
| | | Longnose sucker | 165 | | | | | 0 | | |

Appendix C Table C1. Life history data for fish sampled during Phase I of the Peace River Fish Community Indexing Program, 2001

| Area and Waterbody | Site Label Sample Date and Kilometre | Common Name | Fork Length (mm) | Weight (gm) | Sexual Maturity | Age Structure | Age | Capt. Code | Tag Colour | Tag Number |
|--------------------|--|---------------------|---------------------|----------------|--------------------|------------------|-----|---------------|---------------|---------------|
| Zone 4 Peace River | | | | | | | | | | |
| | EF0403 19/08/2001 | 128.9 | | | | | | | | |
| | | Longnose sucker | 163 | | | | | 0 | | |
| | | Longnose sucker | 214 | | | | | 0 | | |
| | | Longnose sucker | 166 | | | | | 0 | | |
| | | Longnose sucker | 206 | | | | | 0 | | |
| | | Longnose sucker | 192 | | | | | 0 | | |
| | | Longnose sucker | 257 | | | | | 0 | | |
| | | Longnose sucker | 235 | | | | | 0 | | |
| | | Longnose sucker | 182 | | | | | 0 | | |
| | | Northern pike | 225 | | | | | 0 | | |
| | | Northern pikeminnow | 61 | | | | | 0 | | |
| | | Northern pikeminnow | 270 | | | | | 0 | | |
| | | Northern pikeminnow | 292 | | | | | 0 | | |
| | | Peamouth | 185 | | | | | 0 | | |
| | | Redside shiner | 53 | | | | | 0 | | |
| | | Redside shiner | 63 | | | | | 0 | | |
| | | Redside shiner | 56 | | | | | 0 | | |
| | | Redside shiner | 57 | | | | | 0 | | |
| | | Redside shiner | 63 | | | | | 0 | | |
| | | Redside shiner | 67 | | | | | 0 | | |
| | | Redside shiner | 88 | | | | | 0 | | |
| | | Redside shiner | 58 | | | | | 0 | | |
| | | Redside shiner | 74 | | | | | 0 | | |
| | | Redside shiner | 55 | | | | | 0 | | |
| | | Redside shiner | 123 | | | | | 0 | | |
| | | Redside shiner | 66 | | | | | 0 | | |
| | | Redside shiner | 94 | | | | | 0 | | |
| | | Redside shiner | 79 | | | | | 0 | | |
| | | Redside shiner | 96 | | | | | 0 | | |
| | | Redside shiner | 88 | | | | | 0 | | |
| | | Redside shiner | 88 | | | | | 0 | | |
| | | Redside shiner | 85 | | | | | 0 | | |
| | | Redside shiner | 96 | | | | | 0 | | |
| | | Redside shiner | 89 | | | | | 0 | | |
| | | Redside shiner | 96 | | | | | 0 | | |
| | | Redside shiner | 80 | | | | | 0 | | |
| | | Slimy sculpin | 55 | | | | | 0 | | |
| | | Kokanee | 64 | | | | | 0 | | |
| | | Longnose sucker | 94 | | | | | 0 | | |
| | | Longnose sucker | 43 | | | | | 4 | | |
| | | Longnose sucker | 103 | | | | | 0 | | |
| | | Mountain whitefish | 86 | | | | | 0 | | |
| | | Mountain whitefish | 106 | | | | | 0 | | |
| | | Redside shiner | 66 | | | | | 0 | | |
| | | Redside shiner | 31 | | | | | 0 | | |
| | | Redside shiner | 80 | | | | | 0 | | |
| | | Redside shiner | 66 | | | | | 0 | | |
| | | Redside shiner | 66 | | | | | 0 | | |
| | | Redside shiner | 62 | | | | | 0 | | |
| | ES0401 17/08/2001 | 145.2 | | | | | | | | |

Appendix C Table C1. Life history data for fish sampled during Phase I of the Peace River Fish Community Indexing Program, 2001

| Area and Waterbody | Site Label Sample Date and Kilometre | Common Name | Fork Length (mm) | Weight (gm) | Sexual Maturity | Age Structure | Age | Capt. Code | Tag Colour | Tag Number |
|--------------------|--------------------------------------|--------------------|------------------|-------------|-----------------|---------------|-----|------------|------------|------------|
| Zone 4 Peace River | | | | | | | | | | |
| | ES0401 17/08/2001 | 145.2 | | | | | | | | |
| | | Arctic grayling | 256 | 236 | | | | 0 | Yellow | 12 |
| | | Bull trout | 541 | 1580 | | | | 0 | Yellow | 42 |
| | | Bull trout | 271 | 216 | | | | 0 | Yellow | 43 |
| | | Mountain whitefish | 334 | 484 | | | | 0 | | |
| | | Mountain whitefish | 185 | | | | | 0 | | |
| | | Mountain whitefish | 251 | 194 | | | | 0 | Yellow | 2 |
| | | Mountain whitefish | 272 | | | | | 0 | | |
| | | Mountain whitefish | 264 | 182 | | | | 0 | | |
| | | Mountain whitefish | 282 | 244 | | | | 0 | Yellow | 1 |
| | | Mountain whitefish | 333 | 454 | | | | 0 | Yellow | 14 |
| | | Mountain whitefish | 295 | 340 | | | | 0 | | |
| | | Mountain whitefish | 225 | 134 | | | | 0 | | |
| | | Mountain whitefish | 370 | 646 | | | | 0 | Yellow | 6 |
| | | Mountain whitefish | 311 | 344 | | | | 0 | Yellow | 7 |
| | | Mountain whitefish | 291 | 332 | | | | 0 | Yellow | 8 |
| | | Mountain whitefish | 348 | 526 | | | | 0 | | |
| | | Mountain whitefish | 257 | 276 | | | | 0 | Yellow | 5 |
| | | Mountain whitefish | 261 | | | | | 0 | | |
| | | Mountain whitefish | 346 | 508 | | | | 0 | Yellow | 9 |
| | | Mountain whitefish | 347 | 494 | | | | 0 | Yellow | 11 |
| | | Mountain whitefish | 323 | | | | | 0 | | |
| | | Mountain whitefish | 300 | | | | | 0 | | |
| | | Mountain whitefish | 324 | | | | | 0 | | |
| | | Mountain whitefish | 227 | | | | | 0 | | |
| | | Mountain whitefish | 323 | 350 | | | | 0 | | |
| | | Mountain whitefish | 401 | 886 | | | | 0 | | |
| | | Mountain whitefish | 305 | | | | | 0 | | |
| | | Mountain whitefish | 287 | | | | | 0 | | |
| | | Mountain whitefish | 330 | | | | | 0 | | |
| | | Mountain whitefish | 315 | 346 | | | | 0 | Yellow | 10 |
| | | Mountain whitefish | 254 | 204 | | | | 0 | Yellow | 3 |
| | | Mountain whitefish | 315 | | | | | 0 | | |
| | | Mountain whitefish | 309 | 334 | | | | 0 | Yellow | 13 |
| | | Mountain whitefish | 287 | 266 | | | | 0 | Yellow | 20 |
| | | Mountain whitefish | 176 | | | | | 0 | | |
| | | Mountain whitefish | 272 | | | | | 0 | Yellow | 50 |
| | | Mountain whitefish | 197 | 92 | | | | 0 | | |
| | | Mountain whitefish | 326 | 394 | | | | 0 | | |
| | | Mountain whitefish | 344 | 430 | | | | 0 | | |
| | | Mountain whitefish | 348 | 542 | | | | 0 | Yellow | 16 |
| | | Mountain whitefish | 364 | 552 | | | | 0 | Yellow | 28 |
| | | Mountain whitefish | 333 | 438 | | | | 0 | Yellow | 21 |
| | | Mountain whitefish | 219 | 98 | | | | 0 | | |
| | | Mountain whitefish | 296 | 342 | | | | 0 | | |
| | | Mountain whitefish | 402 | 344 | | | | 0 | | |
| | | Mountain whitefish | 307 | 352 | | | | 0 | | |
| | | Mountain whitefish | 321 | 394 | | | | 0 | | |
| | | Mountain whitefish | 339 | 456 | | | | 0 | | |
| | | Mountain whitefish | 321 | 386 | | | | 0 | Yellow | 24 |

Appendix C Table C1. Life history data for fish sampled during Phase I of the Peace River Fish Community Indexing Program, 2001

| Area and Waterbody | Site Label Sample Date and Kilometre | Common Name | Fork Length (mm) | Weight (gm) | Sexual Maturity | Age Structure | Age | Capt. Code | Tag Colour | Tag Number |
|--------------------|--|--------------------|---------------------|----------------|--------------------|------------------|-----|---------------|---------------|---------------|
| Zone 4 Peace River | | | | | | | | | | |
| | ES0401 17/08/2001 | 145.2 | | | | | | | | |
| | | Mountain whitefish | 228 | | | | | 0 | | |
| | | Mountain whitefish | 316 | 334 | | | | 0 | Yellow | 17 |
| | | Mountain whitefish | 197 | | | | | 0 | | |
| | | Mountain whitefish | 314 | | | | | 0 | | |
| | | Mountain whitefish | 206 | 100 | | | | 0 | | |
| | | Mountain whitefish | 324 | 376 | | | | 0 | Yellow | 25 |
| | | Mountain whitefish | 321 | 358 | | | | 0 | Yellow | 26 |
| | | Mountain whitefish | 329 | 394 | | | | 0 | | |
| | | Mountain whitefish | 291 | 306 | | | | 0 | | |
| | | Mountain whitefish | 318 | 402 | | | | 0 | Yellow | 22 |
| | | Mountain whitefish | 261 | 196 | | | | 0 | Yellow | 27 |
| | | Mountain whitefish | 325 | | | | | 0 | Yellow | 49 |
| | | Mountain whitefish | 274 | 224 | | | | 0 | Yellow | 19 |
| | | Mountain whitefish | 280 | 258 | | | | 0 | Yellow | 31 |
| | | Mountain whitefish | 204 | 98 | | | | 0 | | |
| | | Mountain whitefish | 316 | 380 | | | | 0 | Yellow | 29 |
| | | Mountain whitefish | 353 | 414 | | | | 0 | | |
| | | Mountain whitefish | 299 | 350 | | | | 0 | Yellow | 30 |
| | | Mountain whitefish | 201 | 90 | | | | 0 | | |
| | | Mountain whitefish | 313 | 382 | | | | 0 | | |
| | | Mountain whitefish | 271 | 250 | | | | 0 | Yellow | 36 |
| | | Mountain whitefish | 216 | 96 | | | | 0 | | |
| | | Mountain whitefish | 311 | 386 | | | | 0 | Yellow | 32 |
| | | Mountain whitefish | 293 | 344 | | | | 0 | | |
| | | Mountain whitefish | 321 | 494 | | | | 0 | | |
| | | Mountain whitefish | 234 | 162 | | | | 0 | | |
| | | Mountain whitefish | 316 | 398 | | | | 0 | | |
| | | Mountain whitefish | 211 | 112 | | | | 0 | | |
| | | Mountain whitefish | 227 | 136 | | | | 0 | | |
| | | Mountain whitefish | 305 | | | | | 0 | Yellow | 48 |
| | | Mountain whitefish | 334 | 446 | | | | 0 | Yellow | 37 |
| | | Mountain whitefish | 262 | 196 | | | | 0 | Yellow | 38 |
| | | Mountain whitefish | 313 | 338 | | | | 0 | Yellow | 39 |
| | | Mountain whitefish | 233 | 146 | | | | 0 | | |
| | | Mountain whitefish | 315 | 384 | | | | 0 | Yellow | 40 |
| | | Mountain whitefish | 256 | 182 | | | | 0 | | |
| | | Mountain whitefish | 314 | 394 | | | | 0 | Yellow | 33 |
| | | Mountain whitefish | 282 | 252 | | | | 0 | Yellow | 34 |
| | | Mountain whitefish | 251 | 196 | | | | 0 | Yellow | 41 |
| | | Mountain whitefish | 259 | 248 | | | | 0 | Yellow | 23 |
| | | Mountain whitefish | 342 | | | | | 0 | Yellow | 44 |
| | | Mountain whitefish | 340 | | | | | 0 | Yellow | 45 |
| | | Mountain whitefish | 210 | | | | | 0 | | |
| | | Mountain whitefish | 252 | | | | | 0 | Yellow | 46 |
| | | Mountain whitefish | 306 | | | | | 0 | Yellow | 47 |
| | | Mountain whitefish | 220 | | | | | 0 | | |
| | | Mountain whitefish | 231 | 156 | | | | 0 | | |
| | | Mountain whitefish | 195 | | | | | 0 | | |
| | | Mountain whitefish | 262 | | | | | 0 | Yellow | 35 |

Appendix C Table C1. Life history data for fish sampled during Phase I of the Peace River Fish Community Indexing Program, 2001

| Area and Waterbody | Site Label Sample Date and Kilometre | Common Name | Fork Length (mm) | Weight (gm) | Sexual Maturity | Age Structure | Age | Capt. Code | Tag Colour | Tag Number |
|--------------------|--|--------------------|---------------------|----------------|--------------------|------------------|-----|---------------|---------------|---------------|
| Zone 4 Peace River | | | | | | | | | | |
| | ES0401 17/08/2001 | 145.2 | | | | | | | | |
| | | Mountain whitefish | 205 | | | | | 0 | | |
| | | Mountain whitefish | 323 | | | | | 0 | | |
| | | Mountain whitefish | 218 | | | | | 0 | | |
| | | Mountain whitefish | 220 | | | | | 0 | | |
| | | Mountain whitefish | 295 | | | | | 0 | Yellow | 51 |
| | | Mountain whitefish | 283 | 258 | | | | 0 | Yellow | 15 |
| | | Mountain whitefish | 316 | 380 | | | | 0 | Yellow | 18 |
| | | Mountain whitefish | 240 | | | | | 0 | | |
| | | Mountain whitefish | 221 | | | | | 0 | | |
| | | Mountain whitefish | 281 | | | | | 0 | | |
| | | Mountain whitefish | 339 | 474 | | | | 0 | | |
| | | Mountain whitefish | 279 | | | | | 0 | | |
| | | Mountain whitefish | 201 | | | | | 0 | | |
| | | Mountain whitefish | 303 | | | | | 0 | | |
| | | Mountain whitefish | 305 | | | | | 0 | | |
| | | Mountain whitefish | 323 | 396 | | | | 0 | | |
| | | Mountain whitefish | 293 | | | | | 0 | | |
| | | Mountain whitefish | 300 | 290 | | | | 0 | | |
| | | Mountain whitefish | 316 | 428 | | | | 0 | | |
| | | Mountain whitefish | 357 | | | | | 0 | | |
| | | Mountain whitefish | 335 | | | | | 0 | | |
| | | Mountain whitefish | 241 | | | | | 0 | | |
| | | Mountain whitefish | 343 | | | | | 0 | | |
| | | Mountain whitefish | 295 | | | | | 0 | | |
| | | Mountain whitefish | 246 | | | | | 0 | | |
| | | Mountain whitefish | 357 | | | | | 0 | | |
| | | Mountain whitefish | 285 | 336 | | | | 0 | | |
| | | Mountain whitefish | 246 | 182 | | | | 0 | | |
| | | Mountain whitefish | 206 | 108 | | | | 0 | | |
| | | Mountain whitefish | 255 | | | | | 0 | | |
| | | Mountain whitefish | 220 | | | | | 0 | | |
| | | Mountain whitefish | 316 | 422 | | | | 0 | | |
| | | Mountain whitefish | 254 | 204 | | | | 0 | | |
| | | Mountain whitefish | 291 | 364 | | | | 0 | Yellow | 4 |
| | | Mountain whitefish | 270 | 244 | | | | 0 | | |
| | | Mountain whitefish | 380 | 590 | | | | 0 | | |
| | | Mountain whitefish | 250 | | | | | 0 | | |
| | | Mountain whitefish | 282 | 264 | | | | 0 | | |
| | | Mountain whitefish | 355 | | | | | 0 | | |
| | | Mountain whitefish | 318 | 388 | | | | 0 | | |
| | | Mountain whitefish | 309 | 312 | | | | 0 | | |
| | | Mountain whitefish | 307 | 358 | | | | 0 | | |
| | | Mountain whitefish | 264 | 228 | | | | 0 | | |
| | | Mountain whitefish | 327 | 462 | | | | 0 | | |
| | | Mountain whitefish | 215 | 122 | | | | 0 | | |
| | | Mountain whitefish | 218 | 98 | | | | 0 | | |
| | | Mountain whitefish | 261 | 206 | | | | 0 | Yellow | 987 |
| | | Mountain whitefish | 304 | | | | | 0 | Yellow | 976 |
| | | Mountain whitefish | 221 | 110 | | | | 0 | | |

Appendix C Table C1. Life history data for fish sampled during Phase I of the Peace River Fish Community Indexing Program, 2001

| Area and Waterbody | Site Label Sample Date and Kilometre | Common Name | Fork Length (mm) | Weight (gm) | Sexual Maturity | Age Structure | Age | Capt. Code | Tag Colour | Tag Number |
|--------------------|--|--------------------|---------------------|----------------|--------------------|------------------|-----|---------------|---------------|---------------|
| Zone 4 Peace River | | | | | | | | | | |
| | ES0401 17/08/2001 145.2 | Mountain whitefish | 330 | 524 | | | | 0 | Yellow | 946 |
| | | Mountain whitefish | 228 | 134 | | | | 0 | | |
| | | Mountain whitefish | 223 | 106 | | | | 0 | | |
| | | Mountain whitefish | 230 | 130 | | | | 0 | | |
| | | Mountain whitefish | 232 | 170 | | | | 0 | | |
| | | Mountain whitefish | 215 | 108 | | | | 0 | | |
| | | Mountain whitefish | 186 | 70 | | | | 0 | | |
| | | Mountain whitefish | 289 | 298 | | | | 0 | Yellow | 938 |
| | | Mountain whitefish | 347 | 476 | | | | 0 | Yellow | 950 |
| | | Mountain whitefish | 350 | 632 | | | | 0 | Yellow | 937 |
| | | Mountain whitefish | 236 | 156 | | | | 0 | | |
| | | Mountain whitefish | 267 | 228 | | | | 0 | Yellow | 986 |
| | | Mountain whitefish | 204 | 112 | | | | 0 | | |
| | | Mountain whitefish | 221 | 134 | | | | 0 | | |
| | | Mountain whitefish | 221 | 122 | | | | 0 | | |
| | | Mountain whitefish | 214 | 130 | | | | 0 | | |
| | | Mountain whitefish | 218 | 104 | | | | 0 | | |
| | | Mountain whitefish | 218 | 146 | | | | 0 | | |
| | | Mountain whitefish | 320 | 426 | | | | 0 | Yellow | 942 |
| | | Mountain whitefish | 204 | 96 | | | | 0 | | |
| | | Mountain whitefish | 230 | 124 | | | | 0 | | |
| | | Mountain whitefish | 205 | 108 | | | | 0 | | |
| | | Mountain whitefish | 317 | 440 | | | | 0 | Yellow | 943 |
| | | Mountain whitefish | 227 | 144 | | | | 0 | | |
| | | Mountain whitefish | 334 | 474 | | | | 0 | Yellow | 931 |
| | | Mountain whitefish | 336 | 444 | | | | 0 | Yellow | 945 |
| | | Mountain whitefish | 327 | 412 | | | | 0 | Yellow | 939 |
| | | Mountain whitefish | 270 | 252 | | | | 0 | Yellow | 947 |
| | | Mountain whitefish | 233 | 164 | | | | 0 | | |
| | | Mountain whitefish | 224 | 122 | | | | 0 | | |
| | | Mountain whitefish | 309 | 434 | | | | 0 | Yellow | 948 |
| | | Mountain whitefish | 216 | 172 | | | | 0 | | |
| | | Mountain whitefish | 311 | 416 | | | | 0 | Yellow | 944 |
| | | Mountain whitefish | 305 | 396 | | | | 0 | Yellow | 977 |
| | | Mountain whitefish | 228 | 116 | | | | 0 | | |
| | | Mountain whitefish | 335 | 490 | | | | 0 | Yellow | 932 |
| | | Mountain whitefish | 215 | 116 | | | | 0 | | |
| | | Mountain whitefish | 266 | 230 | | | | 0 | Yellow | 933 |
| | | Mountain whitefish | 368 | 672 | | | | 0 | Yellow | 934 |
| | | Mountain whitefish | 330 | 438 | | | | 0 | Yellow | 935 |
| | | Mountain whitefish | 226 | 164 | | | | 0 | | |
| | | Mountain whitefish | 228 | 134 | | | | 0 | | |
| | | Mountain whitefish | 301 | 418 | | | | 0 | Yellow | 940 |
| | | Mountain whitefish | 315 | 440 | | | | 0 | Yellow | 936 |
| | | Mountain whitefish | 327 | 484 | | | | 0 | Yellow | 949 |
| | | Mountain whitefish | 316 | 378 | | | | 0 | Yellow | 985 |
| | | Mountain whitefish | 211 | 106 | | | | 0 | | |
| | | Mountain whitefish | 220 | 166 | | | | 0 | | |
| | | Mountain whitefish | 226 | 112 | | | | 0 | | |

Appendix C Table C1. Life history data for fish sampled during Phase I of the Peace River Fish Community Indexing Program, 2001

| Area and Waterbody | Site Label Sample Date and Kilometre | Common Name | Fork Length (mm) | Weight (gm) | Sexual Maturity | Age Structure | Age | Capt. Code | Tag Colour | Tag Number |
|--------------------|--|--------------------|---------------------|----------------|--------------------|------------------|-----|---------------|---------------|---------------|
| Zone 4 Peace River | | | | | | | | | | |
| | ES0401 | 17/08/2001 | 145.2 | | | | | | | |
| | | Mountain whitefish | 298 | 320 | | | | 0 | Yellow | 984 |
| | | Mountain whitefish | 276 | 220 | | | | 0 | Yellow | 981 |
| | | Mountain whitefish | 321 | 370 | | | | 0 | Yellow | 982 |
| | | Mountain whitefish | 213 | 98 | | | | 0 | | |
| | | Mountain whitefish | 160 | 38 | | | | 0 | | |
| | | Mountain whitefish | 345 | | | | | 0 | Yellow | 980 |
| | | Mountain whitefish | 301 | 384 | | | | 0 | Yellow | 941 |
| | | Mountain whitefish | 226 | 122 | | | | 0 | | |
| | | Mountain whitefish | 221 | 114 | | | | 0 | | |
| | | Mountain whitefish | 279 | 226 | | | | 0 | Yellow | 978 |
| | | Mountain whitefish | 353 | 446 | | | | 0 | Yellow | 983 |
| | ES0402 | 17/08/2001 | 143.1 | | | | | | | |
| | | Largescale sucker | 485 | 1700 | | | | 0 | Yellow | 60 |
| | | Mountain whitefish | 315 | | | | | 0 | Yellow | 59 |
| | | Bull trout | 435 | 784 | | Fin Ray | 5 | 0 | Yellow | 966 |
| | | Bull trout | 465 | 1102 | | Fin Ray | 5 | 0 | Yellow | 965 |
| | | Kokanee | 154 | 38 | | Scale | 1 | 0 | | |
| | | Lake whitefish | 321 | 294 | | Scale | 4 | 0 | Yellow | 955 |
| | | Lake whitefish | 282 | 322 | | | | 0 | Yellow | 956 |
| | | Mountain whitefish | 336 | 436 | | | | 0 | Yellow | 958 |
| | | Mountain whitefish | 276 | 258 | | | | 0 | Yellow | 993 |
| | | Mountain whitefish | 317 | 384 | | | | 0 | Yellow | 952 |
| | | Mountain whitefish | 336 | 336 | | | | 0 | Yellow | 964 |
| | | Mountain whitefish | 285 | 260 | | | | 0 | Yellow | 951 |
| | | Mountain whitefish | 330 | 382 | | | | 0 | Yellow | 963 |
| | | Mountain whitefish | 340 | 416 | | | | 0 | Yellow | 962 |
| | | Mountain whitefish | 328 | 464 | | | | 0 | Yellow | 959 |
| | | Mountain whitefish | 329 | 534 | | | | 0 | Yellow | 957 |
| | | Mountain whitefish | 302 | 324 | | | | 0 | Yellow | 998 |
| | | Mountain whitefish | 313 | 378 | | | | 0 | Yellow | 954 |
| | | Mountain whitefish | 285 | 246 | | | | 0 | Yellow | 953 |
| | | Mountain whitefish | 298 | 282 | | | | 0 | Yellow | 960 |
| | | Mountain whitefish | 224 | 118 | | | | 0 | | |
| | | Mountain whitefish | 388 | 612 | | | | 0 | Yellow | 996 |
| | | Mountain whitefish | 338 | 448 | | | | 0 | Yellow | 967 |
| | | Mountain whitefish | 327 | 488 | | | | 0 | | |
| | | Mountain whitefish | 321 | 432 | | | | 0 | Yellow | 988 |
| | | Mountain whitefish | 325 | 416 | | | | 0 | Yellow | 989 |
| | | Mountain whitefish | 374 | 624 | | | | 0 | Yellow | 990 |
| | | Mountain whitefish | 336 | 300 | | | | 0 | Yellow | 991 |
| | | Mountain whitefish | 323 | 402 | | | | 0 | Yellow | 994 |
| | | Mountain whitefish | 325 | 406 | | | | 0 | Yellow | 995 |
| | | Mountain whitefish | 320 | 364 | | | | 0 | Yellow | 961 |
| | | Mountain whitefish | 318 | 428 | | | | 0 | Yellow | 997 |
| | | Mountain whitefish | 297 | 280 | | | | 0 | Yellow | 999 |
| | | Mountain whitefish | 291 | 264 | | | | 0 | Yellow | 992 |
| | | Mountain whitefish | 276 | 268 | | | | 0 | Yellow | 1000 |
| | ES0403 | 17/08/2001 | 142.0 | | | | | | | |
| | | Arctic grayling | 280 | 272 | | | | 0 | | |

Appendix C Table C1. Life history data for fish sampled during Phase I of the Peace River Fish Community Indexing Program, 2001

| Area and Waterbody | Site Label Sample Date and Kilometre | Common Name | Fork Length (mm) | Weight (gm) | Sexual Maturity | Age Structure | Age | Capt. Code | Tag Colour | Tag Number |
|--------------------|--------------------------------------|--------------------|------------------|-------------|-----------------|---------------|-----|------------|------------|------------|
| Zone 4 Peace River | | | | | | | | | | |
| | ES0403 17/08/2001 142.0 | Largescale sucker | 347 | 832 | | | | 0 | Yellow | 64 |
| | | Longnose sucker | | | | | | 0 | | |
| | | Mountain whitefish | 265 | 194 | | | | 0 | Yellow | 69 |
| | | Mountain whitefish | 302 | 326 | | | | 0 | Yellow | 65 |
| | | Mountain whitefish | 340 | 436 | | | | 0 | Yellow | 71 |
| | | Mountain whitefish | 312 | | | | | 0 | Yellow | 72 |
| | | Mountain whitefish | 335 | | | | | 0 | Yellow | 73 |
| | | Mountain whitefish | 262 | | | | | 0 | Yellow | 74 |
| | | Mountain whitefish | 205 | 94 | | | | 0 | | |
| | | Mountain whitefish | 298 | | | | | 0 | | |
| | | Mountain whitefish | 300 | | | | | 0 | | |
| | | Mountain whitefish | 312 | | | | | 0 | | |
| | | Mountain whitefish | 208 | | | | | 0 | | |
| | | Mountain whitefish | 189 | | | | | 0 | | |
| | | Mountain whitefish | 278 | | | | | 0 | | |
| | | Mountain whitefish | 257 | | | | | 0 | | |
| | | Mountain whitefish | 290 | 328 | | | | 0 | Yellow | 70 |
| | | Mountain whitefish | 307 | | | | | 0 | Yellow | 63 |
| | | Mountain whitefish | 233 | | | | | 0 | | |
| | | Mountain whitefish | 300 | 320 | | | | 0 | Yellow | 67 |
| | | Mountain whitefish | 255 | 182 | | | | 0 | Yellow | 66 |
| | | Mountain whitefish | 410 | 676 | | | | 0 | Yellow | 62 |
| | | Mountain whitefish | 325 | | | | | 0 | | |
| | | Mountain whitefish | 330 | | | | | 0 | | |
| | | Mountain whitefish | 327 | 436 | | | | 0 | Yellow | 61 |
| | | Mountain whitefish | 324 | 412 | | | | 0 | | |
| | | Mountain whitefish | 310 | | | | | 0 | Yellow | 58 |
| | | Mountain whitefish | 323 | | | | | 0 | Yellow | 57 |
| | | Mountain whitefish | 360 | 462 | | | | 0 | Yellow | 55 |
| | | Mountain whitefish | 342 | 406 | | | | 0 | Yellow | 53 |
| | | Mountain whitefish | 323 | | | | | 0 | Yellow | 52 |
| | | Mountain whitefish | 335 | 406 | | | | 0 | Yellow | 68 |
| | | Mountain whitefish | 322 | 344 | | | | 0 | Yellow | 54 |
| | | Rainbow trout | 255 | 206 | | | | 0 | Yellow | 75 |
| | | Rainbow trout | 430 | | | | | 0 | | |
| | | Mountain whitefish | 305 | 302 | | | | 0 | | |
| | | Mountain whitefish | 308 | 338 | | | | 0 | Yellow | 1051 |
| | | Mountain whitefish | 286 | 254 | | | | 0 | Yellow | 968 |
| | | Mountain whitefish | 283 | 272 | | | | 0 | Yellow | 969 |
| | | Mountain whitefish | 312 | 358 | | | | 0 | Yellow | 970 |
| | | Mountain whitefish | 323 | 418 | | | | 0 | Yellow | 971 |
| | | Mountain whitefish | 325 | 370 | | | | 0 | Yellow | 972 |
| | | Mountain whitefish | 313 | | | | | 0 | Yellow | 973 |
| | | Mountain whitefish | 242 | 150 | | | | 0 | | |
| | | Mountain whitefish | 313 | 364 | | | | 0 | Yellow | 1023 |
| | | Mountain whitefish | 262 | 228 | | | | 0 | Yellow | 1021 |
| | | Mountain whitefish | 308 | 346 | | | | 0 | Yellow | 1014 |
| | | Mountain whitefish | 313 | 380 | | | | 0 | Yellow | 1002 |
| | | Mountain whitefish | 346 | 506 | | | | 0 | Yellow | 1006 |

Appendix C Table C1. Life history data for fish sampled during Phase I of the Peace River Fish Community Indexing Program, 2001

| Area and Waterbody | Site Label Sample Date and Kilometre | Common Name | Fork Length (mm) | Weight (gm) | Sexual Maturity | Age Structure | Age | Capt. Code | Tag Colour | Tag Number |
|--------------------|--|--------------------|---------------------|----------------|--------------------|------------------|-----|---------------|---------------|---------------|
| Zone 4 Peace River | | | | | | | | | | |
| | ES0403 17/08/2001 142.0 | Mountain whitefish | 308 | 352 | | | | 0 | Yellow | 1004 |
| | | Mountain whitefish | 316 | 346 | | | | 0 | Yellow | 1013 |
| | | Mountain whitefish | 321 | 342 | | | | 0 | Yellow | 975 |
| | | Mountain whitefish | 210 | 104 | | | | 0 | | |
| | | Mountain whitefish | 305 | | | | | 0 | | |
| | | Mountain whitefish | 302 | 324 | | | | 0 | Yellow | 1012 |
| | | Mountain whitefish | 326 | 300 | | | | 0 | Yellow | 1011 |
| | | Mountain whitefish | 283 | 296 | | | | 0 | Yellow | 974 |
| | | Mountain whitefish | 291 | 312 | | | | 0 | Yellow | 1053 |
| | | Mountain whitefish | 321 | 394 | | | | 0 | Yellow | 1052 |
| | | Mountain whitefish | 211 | 98 | | | | 0 | | |
| | | Mountain whitefish | 313 | 324 | | | | 0 | Yellow | 1061 |
| | | Mountain whitefish | 320 | 394 | | | | 0 | Yellow | 1060 |
| | | Mountain whitefish | 300 | 300 | | | | 0 | Yellow | 1059 |
| | | Mountain whitefish | 316 | 366 | | | | 0 | | |
| | | Mountain whitefish | 312 | 316 | | | | 0 | Yellow | 1058 |
| | | Mountain whitefish | 260 | 210 | | | | 0 | Yellow | 1022 |
| | | Mountain whitefish | 231 | 136 | | | | 0 | | |
| | | Mountain whitefish | 315 | 332 | | | | 0 | Yellow | 1057 |
| | | Mountain whitefish | 271 | 238 | | | | 0 | Yellow | 1025 |
| | | Mountain whitefish | 240 | 146 | | | | 0 | | |
| | | Mountain whitefish | 336 | 462 | | | | 0 | Yellow | 1024 |
| | | Mountain whitefish | 214 | 126 | | | | 0 | | |
| | | Mountain whitefish | 274 | | | | | 0 | Yellow | 1016 |
| | | Mountain whitefish | 256 | 190 | | | | 0 | Yellow | 1017 |
| | | Mountain whitefish | 244 | 176 | | | | 0 | | |
| | | Mountain whitefish | 315 | 382 | | | | 0 | Yellow | 1018 |
| | | Mountain whitefish | 343 | 460 | | | | 0 | Yellow | 1054 |
| | | Mountain whitefish | 311 | 318 | | | | 0 | Yellow | 1020 |
| | | Mountain whitefish | 335 | 476 | | | | 0 | Yellow | 1015 |
| | | Mountain whitefish | 236 | 144 | | | | 0 | | |
| | | Mountain whitefish | 301 | 334 | | | | 0 | Yellow | 1005 |
| | | Mountain whitefish | 323 | | | | | 0 | Yellow | 1056 |
| | | Mountain whitefish | 321 | 462 | | | | 0 | Yellow | 1003 |
| | | Mountain whitefish | 326 | 366 | | | | 0 | Yellow | 1010 |
| | | Mountain whitefish | 312 | 356 | | | | 0 | Yellow | 1001 |
| | | Mountain whitefish | 374 | 724 | | | | 0 | | |
| | | Mountain whitefish | 324 | 448 | | | | 0 | Yellow | 1008 |
| | | Mountain whitefish | 321 | 370 | | | | 0 | Yellow | 1007 |
| | | Mountain whitefish | 306 | 324 | | | | 0 | Yellow | 1009 |
| | | Rainbow trout | 303 | 352 | | | | 0 | Yellow | 1019 |
| | | Rainbow trout | 423 | 746 | | | | 0 | Yellow | 1055 |
| | ES0404 17/08/2001 140.0 | Arctic grayling | 191 | 100 | | | | 0 | | |
| | | Arctic grayling | 169 | 62 | | | | 0 | | |
| | | Arctic grayling | 281 | 286 | | | | 0 | Yellow | 94 |
| | | Bull trout | 297 | 306 | | | | 0 | Yellow | 88 |
| | | Bull trout | 204 | 98 | | | | 0 | | |
| | | Mountain whitefish | 270 | 222 | | | | 0 | Yellow | 100 |

Appendix C Table C1. Life history data for fish sampled during Phase I of the Peace River Fish Community Indexing Program, 2001

| Area and Waterbody | Site Label Sample Date and Kilometre | Common Name | Fork Length (mm) | Weight (gm) | Sexual Maturity | Age Structure | Age | Capt. Code | Tag Colour | Tag Number |
|--------------------|--|--------------------|---------------------|----------------|--------------------|------------------|-----|---------------|---------------|---------------|
| Zone 4 Peace River | | | | | | | | | | |
| | ES0404 17/08/2001 | 140.0 | | | | | | | | |
| | | Mountain whitefish | 293 | 294 | | | | 0 | Yellow | 103 |
| | | Mountain whitefish | 266 | 212 | | | | 0 | Yellow | 99 |
| | | Mountain whitefish | 328 | 422 | | | | 0 | | |
| | | Mountain whitefish | 323 | 362 | | | | 0 | Yellow | 102 |
| | | Mountain whitefish | 305 | 312 | | | | 0 | | |
| | | Mountain whitefish | 308 | 308 | | | | 0 | Yellow | 104 |
| | | Mountain whitefish | 343 | 446 | | | | 0 | Yellow | 101 |
| | | Mountain whitefish | 319 | 348 | | | | 0 | | |
| | | Mountain whitefish | 295 | 246 | | | | 0 | | |
| | | Mountain whitefish | 445 | 1154 | | | | 0 | Yellow | 83 |
| | | Mountain whitefish | 301 | 338 | | | | 0 | Yellow | 84 |
| | | Mountain whitefish | 327 | 398 | | | | 0 | Yellow | 85 |
| | | Mountain whitefish | 307 | 366 | | | | 0 | Yellow | 86 |
| | | Mountain whitefish | 252 | 176 | | | | 0 | | |
| | | Mountain whitefish | 301 | 384 | | | | 0 | Yellow | 87 |
| | | Mountain whitefish | 434 | 1146 | | | | 0 | | |
| | | Mountain whitefish | 326 | 382 | | | | 0 | Yellow | 56 |
| | | Mountain whitefish | 263 | 182 | | | | 0 | Yellow | 90 |
| | | Mountain whitefish | 364 | 606 | | | | 0 | Yellow | 89 |
| | | Mountain whitefish | 208 | 94 | | | | 0 | | |
| | | Mountain whitefish | 306 | 334 | | | | 0 | Yellow | 93 |
| | | Mountain whitefish | 306 | 348 | | | | 0 | | |
| | | Mountain whitefish | 326 | | | | | 0 | Yellow | 91 |
| | | Mountain whitefish | 307 | 384 | | | | 0 | Yellow | 76 |
| | | Mountain whitefish | 203 | 82 | | | | 0 | | |
| | | Mountain whitefish | 342 | 406 | | | | 0 | Yellow | 77 |
| | | Mountain whitefish | 246 | 148 | | | | 0 | | |
| | | Mountain whitefish | 224 | 121 | | | | 0 | | |
| | | Mountain whitefish | 283 | 250 | | | | 0 | Yellow | 92 |
| | | Mountain whitefish | 199 | 80 | | | | 0 | | |
| | | Mountain whitefish | 313 | 328 | | | | 0 | Yellow | 78 |
| | | Mountain whitefish | 316 | 370 | | | | 0 | Yellow | 79 |
| | | Mountain whitefish | 199 | 94 | | | | 0 | | |
| | | Mountain whitefish | 302 | 332 | | | | 0 | Yellow | 80 |
| | | Mountain whitefish | 290 | 296 | | | | 0 | Yellow | 81 |
| | | Mountain whitefish | 323 | 452 | | | | 0 | Yellow | 97 |
| | | Mountain whitefish | 319 | 340 | | | | 0 | Yellow | 82 |
| | | Mountain whitefish | 281 | 226 | | | | 0 | Yellow | 106 |
| | | Mountain whitefish | 344 | 436 | | | | 0 | Yellow | 95 |
| | | Mountain whitefish | 209 | 108 | | | | 0 | | |
| | | Mountain whitefish | 216 | 98 | | | | 0 | | |
| | | Mountain whitefish | 273 | 190 | | | | 0 | Yellow | 96 |
| | | Mountain whitefish | 304 | 358 | | | | 0 | | |
| | | Mountain whitefish | 213 | 108 | | | | 0 | | |
| | | Mountain whitefish | 313 | 318 | | | | 0 | Yellow | 98 |
| | | Mountain whitefish | 213 | 112 | | | | 0 | | |
| | | Mountain whitefish | 217 | 120 | | | | 0 | | |
| | | Mountain whitefish | 253 | 166 | | | | 0 | Yellow | 107 |
| | | Mountain whitefish | 215 | 100 | | | | 0 | | |

Appendix C Table C1. Life history data for fish sampled during Phase I of the Peace River Fish Community Indexing Program, 2001

| Area and Waterbody | Site Label Sample Date and Kilometre | Common Name | Fork Length (mm) | Weight (gm) | Sexual Maturity | Age Structure | Age | Capt. Code | Tag Colour | Tag Number |
|--------------------|--|--------------------|---------------------|----------------|--------------------|------------------|-----|---------------|---------------|---------------|
| Zone 4 Peace River | | | | | | | | | | |
| | ES0404 17/08/2001 | 140.0 | | | | | | | | |
| | | Mountain whitefish | 214 | 108 | | | | 0 | | |
| | | Mountain whitefish | 282 | 262 | | | | 0 | Yellow | 105 |
| | | Longnose sucker | 417 | 932 | | | | 0 | Yellow | 1063 |
| | | Mountain whitefish | 334 | 414 | | | | 0 | Yellow | 1069 |
| | | Mountain whitefish | 344 | 614 | | | | 0 | Yellow | 1077 |
| | | Mountain whitefish | 290 | 346 | | | | 0 | Yellow | 1093 |
| | | Mountain whitefish | 321 | 444 | | | | 0 | Yellow | 1071 |
| | | Mountain whitefish | 260 | 234 | | | | 0 | Yellow | 1094 |
| | | Mountain whitefish | 276 | 288 | | | | 0 | Yellow | 1096 |
| | | Mountain whitefish | 245 | 190 | | | | 0 | | |
| | | Mountain whitefish | 269 | 240 | | | | 0 | Yellow | 1091 |
| | | Mountain whitefish | 335 | 452 | | | | 0 | Yellow | 1081 |
| | | Mountain whitefish | 302 | 306 | | | | 0 | Yellow | 1075 |
| | | Mountain whitefish | 335 | 460 | | | | 0 | Yellow | 1064 |
| | | Mountain whitefish | 304 | 390 | | | | 0 | Yellow | 1076 |
| | | Mountain whitefish | 327 | 400 | | | | 0 | Yellow | 1085 |
| | | Mountain whitefish | 335 | 394 | | | | 0 | Yellow | 1078 |
| | | Mountain whitefish | 328 | 416 | | | | 0 | Yellow | 1087 |
| | | Mountain whitefish | 342 | 482 | | | | 0 | Yellow | 1079 |
| | | Mountain whitefish | 328 | 468 | | | | 0 | Yellow | 1074 |
| | | Mountain whitefish | 315 | 388 | | | | 0 | Yellow | 1082 |
| | | Mountain whitefish | 237 | | | | | 0 | | |
| | | Mountain whitefish | 326 | 536 | | | | 0 | Yellow | 1083 |
| | | Mountain whitefish | 329 | 414 | | | | 0 | Yellow | 1084 |
| | | Mountain whitefish | 332 | 382 | | | | 0 | Yellow | 1080 |
| | | Mountain whitefish | 300 | 390 | | | | 0 | | |
| | | Mountain whitefish | 321 | 412 | | | | 0 | Yellow | 1092 |
| | | Mountain whitefish | 317 | 370 | | | | 0 | Yellow | 1073 |
| | | Mountain whitefish | 330 | 510 | | | | 0 | Yellow | 1072 |
| | | Mountain whitefish | 354 | 574 | | | | 0 | Yellow | 1070 |
| | | Mountain whitefish | 269 | | | | | 0 | Yellow | 1068 |
| | | Mountain whitefish | 336 | 512 | | | | 0 | Yellow | 1067 |
| | | Mountain whitefish | 305 | 342 | | | | 0 | Yellow | 1066 |
| | | Mountain whitefish | 327 | 456 | | | | 0 | Yellow | 1062 |
| | | Mountain whitefish | 425 | 944 | | | | 0 | Yellow | 1065 |
| | | Mountain whitefish | 299 | 338 | | | | 0 | | |
| | | Mountain whitefish | 302 | | | | | 0 | Yellow | 1095 |
| | | Mountain whitefish | 201 | | | | | 0 | | |
| | | Mountain whitefish | 238 | | | | | 0 | | |
| | | Mountain whitefish | 312 | 390 | | | | 0 | Yellow | 1089 |
| | | Mountain whitefish | 224 | 150 | | | | 0 | | |
| | | Mountain whitefish | 308 | 338 | | | | 0 | Yellow | 1088 |
| | | Mountain whitefish | 210 | 106 | | | | 0 | | |
| | | Mountain whitefish | 223 | 114 | | | | 0 | | |
| | | Mountain whitefish | 233 | 148 | | | | 0 | | |
| | | Mountain whitefish | 325 | 404 | | | | 0 | Yellow | 1086 |
| | | Mountain whitefish | 292 | 326 | | | | 0 | Yellow | 1090 |
| | ES0405 17/08/2001 | 139.0 | | | | | | | | |
| | | Arctic grayling | 273 | 252 | | | | 0 | Yellow | 129 |

Appendix C Table C1. Life history data for fish sampled during Phase I of the Peace River Fish Community Indexing Program, 2001

| Area and Waterbody | Site Label Sample Date and Kilometre | Common Name | Fork Length (mm) | Weight (gm) | Sexual Maturity | Age Structure | Age | Capt. Code | Tag Colour | Tag Number |
|--------------------|--------------------------------------|--------------------|------------------|-------------|-----------------|---------------|-----|------------|------------|------------|
| Zone 4 Peace River | | | | | | | | | | |
| | ES0405 17/08/2001 139.0 | Bull trout | 257 | 190 | | | | 0 | Yellow | 131 |
| | | Largescale sucker | 439 | 1256 | | Fin Ray | 10 | 0 | Yellow | 113 |
| | | Mountain whitefish | 195 | 78 | | | | 0 | | |
| | | Mountain whitefish | 243 | 194 | | | | 0 | | |
| | | Mountain whitefish | 209 | 92 | | | | 0 | | |
| | | Mountain whitefish | 339 | 410 | | | | 0 | Yellow | 130 |
| | | Mountain whitefish | 290 | 300 | | | | 0 | Yellow | 130 |
| | | Mountain whitefish | 161 | 42 | | | | 0 | | |
| | | Mountain whitefish | 138 | 28 | | | | 0 | | |
| | | Mountain whitefish | 194 | 72 | | | | 0 | | |
| | | Mountain whitefish | 204 | 84 | | | | 0 | | |
| | | Mountain whitefish | 203 | 100 | | | | 0 | | |
| | | Mountain whitefish | 213 | 118 | | | | 0 | | |
| | | Mountain whitefish | 213 | 106 | | | | 0 | | |
| | | Mountain whitefish | 331 | 468 | | | | 0 | | |
| | | Mountain whitefish | 264 | 206 | | | | 0 | Yellow | 134 |
| | | Mountain whitefish | 340 | 422 | | | | 0 | Yellow | 111 |
| | | Mountain whitefish | 319 | 364 | | | | 0 | Yellow | 127 |
| | | Mountain whitefish | 202 | 98 | | | | 0 | | |
| | | Mountain whitefish | 323 | | | | | 0 | Yellow | 133 |
| | | Mountain whitefish | 216 | 98 | | | | 0 | | |
| | | Mountain whitefish | 336 | 386 | | | | 0 | Yellow | 132 |
| | | Mountain whitefish | 241 | 170 | | | | 0 | | |
| | | Mountain whitefish | 330 | 414 | | | | 0 | Yellow | 126 |
| | | Mountain whitefish | 304 | 344 | | | | 0 | Yellow | 128 |
| | | Mountain whitefish | 208 | 102 | | | | 0 | | |
| | | Mountain whitefish | 195 | 76 | | | | 0 | | |
| | | Mountain whitefish | 216 | 112 | | | | 0 | | |
| | | Mountain whitefish | 327 | 458 | | | | 0 | Yellow | 123 |
| | | Mountain whitefish | 305 | 356 | | | | 0 | | |
| | | Mountain whitefish | 211 | 126 | | | | 0 | | |
| | | Mountain whitefish | 402 | 776 | | | | 0 | Yellow | 118 |
| | | Mountain whitefish | 344 | 458 | | | | 0 | Yellow | 119 |
| | | Mountain whitefish | 323 | | | | | 0 | Yellow | 120 |
| | | Mountain whitefish | 198 | 56 | | | | 0 | | |
| | | Mountain whitefish | 216 | 130 | | | | 0 | | |
| | | Mountain whitefish | 417 | 762 | | | | 0 | Yellow | 108 |
| | | Mountain whitefish | 348 | 528 | | | | 0 | | |
| | | Mountain whitefish | 368 | 596 | | | | 0 | Yellow | 124 |
| | | Mountain whitefish | 243 | 188 | | | | 0 | | |
| | | Mountain whitefish | 360 | 500 | | | | 0 | Yellow | 121 |
| | | Mountain whitefish | 136 | 22 | | | | 0 | | |
| | | Mountain whitefish | 385 | 636 | | | | 0 | | |
| | | Mountain whitefish | 281 | 252 | | | | 0 | Yellow | 122 |
| | | Mountain whitefish | 370 | 526 | | | | 0 | Yellow | 109 |
| | | Mountain whitefish | 299 | 346 | | | | 0 | Yellow | 117 |
| | | Mountain whitefish | 196 | | | | | 0 | | |
| | | Mountain whitefish | 306 | 354 | | | | 0 | Yellow | 110 |
| | | Mountain whitefish | 259 | 258 | | | | 0 | Yellow | 125 |

Appendix C Table C1. Life history data for fish sampled during Phase I of the Peace River Fish Community Indexing Program, 2001

| Area and Waterbody | Site Label Sample Date and Kilometre | Common Name | Fork Length (mm) | Weight (gm) | Sexual Maturity | Age Structure | Age | Capt. Code | Tag Colour | Tag Number |
|--------------------|--------------------------------------|--------------------|------------------|-------------|-----------------|---------------|-----|------------|------------|------------|
| Zone 4 Peace River | ES0405 17/08/2001 139.0 | | | | | | | | | |
| | | Mountain whitefish | 279 | 238 | | | | 0 | Yellow | 112 |
| | | Mountain whitefish | 353 | 406 | | | | 0 | Yellow | 114 |
| | | Mountain whitefish | 334 | 462 | | | | 0 | Yellow | 115 |
| | | Mountain whitefish | 315 | 398 | | | | 0 | Yellow | 116 |
| | | Mountain whitefish | 382 | 686 | | | | 0 | | |
| | | Prickly sculpin | 88 | 10 | | | | 0 | | |
| | | Bull trout | 314 | 296 | | Fin Ray | 3 | 0 | Yellow | 1123 |
| | | Longnose sucker | 420 | 908 | | | | 0 | Yellow | 1117 |
| | | Longnose sucker | 398 | 816 | | | | 0 | Yellow | 1119 |
| | | Longnose sucker | 414 | 976 | | | | 0 | Yellow | 1118 |
| | | Mountain whitefish | 341 | 504 | | | | 0 | Yellow | 1147 |
| | | Mountain whitefish | 327 | 436 | | | | 0 | Yellow | 1132 |
| | | Mountain whitefish | 277 | 230 | | | | 0 | Yellow | 1148 |
| | | Mountain whitefish | 313 | 272 | | | | 0 | Yellow | 1150 |
| | | Mountain whitefish | 339 | 468 | | | | 0 | Yellow | 1027 |
| | | Mountain whitefish | 306 | 370 | | | | 0 | Yellow | 1144 |
| | | Mountain whitefish | 329 | 426 | | | | 0 | Yellow | 1029 |
| | | Mountain whitefish | 192 | 88 | | | | 0 | | |
| | | Mountain whitefish | 325 | 404 | | | | 0 | Yellow | 1030 |
| | | Mountain whitefish | 300 | 284 | | | | 0 | Yellow | 1031 |
| | | Mountain whitefish | 307 | 402 | | | | 0 | | |
| | | Mountain whitefish | 294 | 314 | | | | 0 | | |
| | | Mountain whitefish | 311 | 370 | | | | 0 | Yellow | 1026 |
| | | Mountain whitefish | 201 | 80 | | | | 0 | | |
| | | Mountain whitefish | 293 | 280 | | | | 0 | Yellow | 1099 |
| | | Mountain whitefish | 310 | 308 | | | | 0 | Yellow | 1131 |
| | | Mountain whitefish | 291 | 270 | | | | 0 | Yellow | 1103 |
| | | Mountain whitefish | 322 | 394 | | | | 0 | Yellow | 1133 |
| | | Mountain whitefish | 293 | 274 | | | | 0 | Yellow | 1134 |
| | | Mountain whitefish | 341 | 464 | | | | 0 | Yellow | 1135 |
| | | Mountain whitefish | 279 | 258 | | | | 0 | Yellow | 1146 |
| | | Mountain whitefish | 316 | 394 | | | | 0 | Yellow | 1137 |
| | | Mountain whitefish | 317 | 446 | | | | 0 | Yellow | 1128 |
| | | Mountain whitefish | 314 | 344 | | | | 0 | Yellow | 1138 |
| | | Mountain whitefish | 312 | 330 | | | | 0 | Yellow | 1139 |
| | | Mountain whitefish | 294 | 304 | | | | 0 | Yellow | 1140 |
| | | Mountain whitefish | 281 | 236 | | | | 0 | Yellow | 1141 |
| | | Mountain whitefish | 286 | 258 | | | | 0 | Yellow | 1142 |
| | | Mountain whitefish | 314 | 364 | | | | 0 | Yellow | 1143 |
| | | Mountain whitefish | 340 | 436 | | | | 0 | Yellow | 1136 |
| | | Mountain whitefish | 293 | 284 | | | | 0 | Yellow | 1130 |
| | | Mountain whitefish | 316 | 382 | | | | 0 | Yellow | 1098 |
| | | Mountain whitefish | 301 | 334 | | | | 0 | Yellow | 1028 |
| | | Mountain whitefish | 337 | 462 | | | | 0 | Yellow | 1122 |
| | | Mountain whitefish | 167 | 54 | | | | 0 | | |
| | | Mountain whitefish | 311 | 344 | | | | 0 | Yellow | 1114 |
| | | Mountain whitefish | 286 | 270 | | | | 0 | Yellow | 1115 |
| | | Mountain whitefish | 333 | 476 | | | | 0 | Yellow | 1116 |
| | | Mountain whitefish | 330 | 408 | | | | 0 | Yellow | 1121 |

Appendix C Table C1. Life history data for fish sampled during Phase I of the Peace River Fish Community Indexing Program, 2001

| Area and Waterbody | Site Label Sample Date and Kilometre | Common Name | Fork Length (mm) | Weight (gm) | Sexual Maturity | Age Structure | Age | Capt. Code | Tag Colour | Tag Number |
|--------------------|--|---------------------|---------------------|----------------|--------------------|------------------|-----|---------------|---------------|---------------|
| Zone 4 Peace River | | | | | | | | | | |
| | ES0405 17/08/2001 139.0 | Mountain whitefish | 327 | 396 | | | | 0 | Yellow | 1111 |
| | | Mountain whitefish | 328 | 372 | | | | 0 | Yellow | 1124 |
| | | Mountain whitefish | 321 | 386 | | | | 0 | Yellow | 1125 |
| | | Mountain whitefish | 271 | 234 | | | | 0 | Yellow | 1126 |
| | | Mountain whitefish | 291 | 292 | | | | 0 | Yellow | 1120 |
| | | Mountain whitefish | 280 | 270 | | | | 0 | Yellow | 1105 |
| | | Mountain whitefish | 283 | 276 | | | | 0 | | |
| | | Mountain whitefish | 332 | 418 | | | | 0 | Yellow | 1112 |
| | | Mountain whitefish | 294 | 302 | | | | 0 | Yellow | 1145 |
| | | Mountain whitefish | 312 | 354 | | | | 0 | Yellow | 1129 |
| | | Mountain whitefish | 311 | 352 | | | | 0 | Yellow | 1110 |
| | | Mountain whitefish | 326 | 408 | | | | 0 | Yellow | 1109 |
| | | Mountain whitefish | 343 | 454 | | | | 0 | Yellow | 1108 |
| | | Mountain whitefish | 312 | 394 | | | | 0 | | |
| | | Mountain whitefish | 322 | 370 | | | | 0 | Yellow | 1106 |
| | | Mountain whitefish | 275 | 292 | | | | 0 | Yellow | 1097 |
| | | Mountain whitefish | 327 | 326 | | | | 0 | Yellow | 1104 |
| | | Mountain whitefish | 330 | 422 | | | | 0 | Yellow | 1113 |
| | | Mountain whitefish | 264 | 170 | | | | 0 | Yellow | 1102 |
| | | Mountain whitefish | 296 | 302 | | | | 0 | Yellow | 1101 |
| | | Mountain whitefish | 282 | 278 | | | | 0 | Yellow | 1100 |
| | | Mountain whitefish | 300 | 296 | | | | 0 | Yellow | 1127 |
| | | Mountain whitefish | 297 | 282 | | | | 0 | Yellow | 1107 |
| | | Mountain whitefish | 331 | 366 | | | | 0 | Yellow | 1149 |
| | ES0406 17/08/2001 136.5 | Largescale sucker | 433 | 1170 | | Fin Ray | 8 | 0 | Yellow | 136 |
| | | Largescale sucker | 422 | 852 | | Fin Ray | 10 | 0 | | |
| | | Largescale sucker | 354 | 628 | | Fin Ray | 7 | 0 | Yellow | 142 |
| | | Largescale sucker | 475 | 1436 | | Fin Ray | 11 | 0 | Yellow | 139 |
| | | Largescale sucker | 419 | 1238 | | Fin Ray | 11 | 0 | Yellow | 137 |
| | | Largescale sucker | 494 | 1144 | | Fin Ray | 14 | 0 | Yellow | 138 |
| | | Longnose sucker | 419 | 824 | | Fin Ray | 11 | 0 | Yellow | 141 |
| | | Longnose sucker | 405 | 934 | | Fin Ray | 12 | 0 | Yellow | 135 |
| | | Mountain whitefish | 345 | 432 | | | | 0 | | |
| | | Northern pikeminnow | 350 | 522 | | Fin Ray | | 0 | Yellow | 140 |
| | | Lake whitefish | 379 | 706 | | Scale | 5 | 0 | Yellow | 1032 |
| | | Largescale sucker | 430 | | | | | 0 | Yellow | 1037 |
| | | Mountain whitefish | 285 | | | | | 0 | Yellow | 1038 |
| | | Mountain whitefish | 315 | 340 | | | | 0 | Yellow | 1033 |
| | | Mountain whitefish | 340 | 470 | | | | 0 | Yellow | 1034 |
| | | Mountain whitefish | 278 | | | | | 0 | Yellow | 1035 |
| | | Mountain whitefish | 299 | | | | | 0 | Yellow | 1036 |
| | ES0407 17/08/2001 135.0 | Arctic grayling | 291 | 326 | | | | 0 | Yellow | 149 |
| | | Arctic grayling | 261 | 242 | | | | 0 | Yellow | 151 |
| | | Mountain whitefish | 309 | 368 | | | | 0 | Yellow | 174 |
| | | Mountain whitefish | 332 | 408 | | | | 0 | Yellow | 148 |
| | | Mountain whitefish | 196 | 84 | | | | 0 | | |
| | | Mountain whitefish | 215 | 106 | | | | 0 | | |

Appendix C Table C1. Life history data for fish sampled during Phase I of the Peace River Fish Community Indexing Program, 2001

| Area and Waterbody | Site Label Sample Date and Kilometre | Common Name | Fork Length (mm) | Weight (gm) | Sexual Maturity | Age Structure | Age | Capt. Code | Tag Colour | Tag Number |
|--------------------|--|--------------------|---------------------|----------------|--------------------|------------------|-----|---------------|---------------|---------------|
| Zone 4 Peace River | | | | | | | | | | |
| | ES0407 17/08/2001 135.0 | Mountain whitefish | 186 | 66 | | | | 0 | | |
| | | Mountain whitefish | 210 | 88 | | | | 0 | | |
| | | Mountain whitefish | 206 | 102 | | | | 0 | | |
| | | Mountain whitefish | 205 | 100 | | | | 0 | | |
| | | Mountain whitefish | 232 | 142 | | | | 0 | | |
| | | Mountain whitefish | 296 | 238 | | | | 0 | Yellow | 173 |
| | | Mountain whitefish | 326 | 422 | | | | 0 | | |
| | | Mountain whitefish | 354 | 434 | | | | 0 | Yellow | 146 |
| | | Mountain whitefish | 224 | 108 | | | | 0 | | |
| | | Mountain whitefish | 382 | 618 | | | | 0 | Yellow | 163 |
| | | Mountain whitefish | 262 | 184 | | | | 0 | Yellow | 172 |
| | | Mountain whitefish | 321 | 402 | | | | 0 | | |
| | | Mountain whitefish | 300 | 354 | | | | 0 | Yellow | 162 |
| | | Mountain whitefish | 334 | 430 | | | | 0 | Yellow | 152 |
| | | Mountain whitefish | 338 | 444 | | | | 0 | Yellow | 147 |
| | | Mountain whitefish | 325 | 396 | | | | 0 | Yellow | 165 |
| | | Mountain whitefish | 326 | 392 | | | | 0 | Yellow | 161 |
| | | Mountain whitefish | 316 | 326 | | | | 0 | Yellow | 166 |
| | | Mountain whitefish | 319 | 380 | | | | 0 | Yellow | 160 |
| | | Mountain whitefish | 202 | 94 | | | | 0 | | |
| | | Mountain whitefish | 262 | 194 | | | | 0 | Yellow | 171 |
| | | Mountain whitefish | 301 | 278 | | | | 0 | Yellow | 169 |
| | | Mountain whitefish | 283 | 264 | | | | 0 | Yellow | 168 |
| | | Mountain whitefish | 334 | 438 | | | | 0 | Yellow | 167 |
| | | Mountain whitefish | 248 | 176 | | | | 0 | | |
| | | Mountain whitefish | 269 | 240 | | | | 0 | | |
| | | Mountain whitefish | 296 | 302 | | | | 0 | Yellow | 155 |
| | | Mountain whitefish | 300 | 334 | | | | 0 | Yellow | 145 |
| | | Mountain whitefish | 333 | 428 | | | | 0 | Yellow | 144 |
| | | Mountain whitefish | 319 | | | | | 0 | Yellow | 143 |
| | | Mountain whitefish | 322 | 358 | | | | 0 | | |
| | | Mountain whitefish | 299 | 342 | | | | 0 | Yellow | 164 |
| | | Mountain whitefish | 221 | 110 | | | | 0 | | |
| | | Mountain whitefish | 325 | 396 | | | | 0 | Yellow | 154 |
| | | Mountain whitefish | 331 | 372 | | | | 0 | Yellow | 156 |
| | | Mountain whitefish | 296 | 396 | | | | 0 | Yellow | 157 |
| | | Mountain whitefish | 310 | 384 | | | | 0 | Yellow | 158 |
| | | Mountain whitefish | 349 | 456 | | | | 0 | Yellow | 159 |
| | | Mountain whitefish | 323 | 356 | | | | 0 | Yellow | 153 |
| | | Rainbow trout | 150 | 34 | | | | 0 | | |
| | | Rainbow trout | 222 | 128 | | | | 0 | | |
| | | Rainbow trout | 306 | 328 | | | | 0 | Yellow | 175 |
| | | Arctic grayling | 220 | 144 | | | | 0 | | |
| | | Arctic grayling | 301 | 400 | | | | 0 | Yellow | 1155 |
| | | Bull trout | 337 | 354 | | Fin Ray | 3 | 0 | Yellow | 1177 |
| | | Largescale sucker | 393 | 802 | | | | 0 | | |
| | | Longnose sucker | 338 | 520 | | | | 0 | Yellow | 1166 |
| | | Mountain whitefish | 239 | 150 | | | | 0 | | |
| | | Mountain whitefish | 221 | 122 | | | | 0 | | |

Appendix C Table C1. Life history data for fish sampled during Phase I of the Peace River Fish Community Indexing Program, 2001

| Area and Waterbody | Site Label Sample Date and Kilometre | Common Name | Fork Length (mm) | Weight (gm) | Sexual Maturity | Age Structure | Age | Capt. Code | Tag Colour | Tag Number |
|--------------------|--------------------------------------|--------------------|------------------|-------------|-----------------|---------------|-----|------------|------------|------------|
| Zone 4 Peace River | ES0407 17/08/2001 135.0 | Mountain whitefish | 334 | | | | | 0 | Yellow | 1046 |
| | | Mountain whitefish | 360 | | | | | 0 | Yellow | 1047 |
| | | Mountain whitefish | 324 | | | | | 0 | Yellow | 1048 |
| | | Mountain whitefish | 334 | | | | | 0 | Yellow | 1182 |
| | | Mountain whitefish | 303 | 300 | | | | 0 | Yellow | 1179 |
| | | Mountain whitefish | 295 | | | | | 0 | Yellow | 1178 |
| | | Mountain whitefish | 332 | | | | | 0 | Yellow | 1167 |
| | | Mountain whitefish | 280 | | | | | 0 | Yellow | 1176 |
| | | Mountain whitefish | 320 | | | | | 0 | Yellow | 1170 |
| | | Mountain whitefish | 334 | 466 | | | | 0 | Yellow | 1169 |
| | | Mountain whitefish | 219 | 130 | | | | 0 | | |
| | | Mountain whitefish | 231 | 148 | | | | 0 | | |
| | | Mountain whitefish | 306 | | | | | 0 | Yellow | 1181 |
| | | Mountain whitefish | 291 | | | | | 0 | Yellow | 1050 |
| | | Mountain whitefish | 329 | | | | | 0 | Yellow | 1044 |
| | | Mountain whitefish | 347 | | | | | 0 | Yellow | 1042 |
| | | Mountain whitefish | 309 | | | | | 0 | Yellow | 1045 |
| | | Mountain whitefish | 322 | | 17 | | | 0 | Yellow | 1041 |
| | | Mountain whitefish | 316 | | | | | 0 | | |
| | | Mountain whitefish | 310 | | | | | 0 | Yellow | 1039 |
| | | Mountain whitefish | 313 | | | | | 0 | Yellow | 1184 |
| | | Mountain whitefish | 257 | 188 | | | | 0 | Yellow | 1152 |
| | | Mountain whitefish | 333 | 416 | | | | 2 | Yellow | 167 |
| | | Mountain whitefish | 233 | 138 | | | | 0 | | |
| | | Mountain whitefish | 195 | 70 | | | | 0 | | |
| | | Mountain whitefish | 230 | | | | | 0 | | |
| | | Mountain whitefish | 219 | | | | | 0 | | |
| | | Mountain whitefish | 226 | 110 | | | | 0 | | |
| | | Mountain whitefish | 318 | | | | | 0 | Yellow | 1043 |
| | | Mountain whitefish | 236 | 148 | | | | 0 | | |
| | | Mountain whitefish | 293 | | | | | 0 | Yellow | 1160 |
| | | Mountain whitefish | 272 | 254 | | | | 0 | Yellow | 1165 |
| | | Mountain whitefish | 339 | 460 | 17 | | | 0 | Yellow | 1154 |
| | | Mountain whitefish | 298 | | | | | 0 | | |
| | | Mountain whitefish | 381 | 678 | | | | 0 | Yellow | 1156 |
| | | Mountain whitefish | 345 | | | | | 0 | Yellow | 1157 |
| | | Mountain whitefish | 283 | 282 | | | | 0 | Yellow | 1151 |
| | | Mountain whitefish | 310 | | | | | 0 | Yellow | 1159 |
| | | Mountain whitefish | 293 | | | | | 0 | | |
| | | Mountain whitefish | 314 | | | | | 0 | Yellow | 1161 |
| | | Mountain whitefish | 277 | 218 | | | | 0 | Yellow | 1162 |
| | | Mountain whitefish | 219 | 124 | | | | 0 | | |
| | | Mountain whitefish | 311 | | | | | 0 | | |
| | | Mountain whitefish | 340 | 454 | | | | 0 | Yellow | 1153 |
| | | Mountain whitefish | 293 | | | | | 0 | Yellow | 1183 |
| | | Mountain whitefish | 264 | 242 | | | | 0 | Yellow | 1158 |
| | | Mountain whitefish | 183 | 70 | | | | 0 | | |
| | | Mountain whitefish | 331 | 412 | | | | 0 | Yellow | 1172 |
| | | Mountain whitefish | 227 | 422 | | | | 0 | | |

Appendix C Table C1. Life history data for fish sampled during Phase I of the Peace River Fish Community Indexing Program, 2001

| Area and Waterbody | Site Label Sample Date and Kilometre | Common Name | Fork Length (mm) | Weight (gm) | Sexual Maturity | Age Structure | Age | Capt. Code | Tag Colour | Tag Number |
|--------------------|--------------------------------------|--------------------|------------------|-------------|-----------------|---------------|-----|------------|------------|------------|
| Zone 4 Peace River | | | | | | | | | | |
| | ES0407 17/08/2001 135.0 | Mountain whitefish | 295 | | | | | 0 | Yellow | 1173 |
| | | Mountain whitefish | 334 | | | | | 0 | Yellow | 1174 |
| | | Mountain whitefish | 306 | | | | | 0 | Yellow | 1049 |
| | | Mountain whitefish | 330 | | | | | 0 | Yellow | 1175 |
| | | Mountain whitefish | 265 | 194 | | | | 0 | Yellow | 1163 |
| | | Mountain whitefish | 321 | | | | | 0 | Yellow | 1171 |
| | | Rainbow trout | 368 | 592 | | | | 0 | Yellow | 1168 |
| | | Rainbow trout | 391 | 732 | | | | 0 | Yellow | 1164 |
| | | Rainbow trout | 394 | 732 | | | | 0 | Yellow | 1040 |
| | | Rainbow trout | 197 | 90 | | | | 0 | | |
| | | Rainbow trout | 250 | 164 | | | | 0 | Yellow | 1185 |
| | | Rainbow trout | 388 | 716 | | | | 0 | Yellow | 1180 |
| | ES0408 17/08/2001 133.0 | Arctic grayling | 270 | 244 | | | | 0 | Yellow | 194 |
| | | Arctic grayling | 295 | 180 | | | | 0 | Yellow | 184 |
| | | Mountain whitefish | 437 | | | | | 0 | Yellow | 176 |
| | | Mountain whitefish | 186 | 74 | | | | 0 | | |
| | | Mountain whitefish | 250 | | | | | 0 | Yellow | 201 |
| | | Mountain whitefish | 244 | | | | | 0 | | |
| | | Mountain whitefish | 365 | | | | | 0 | Yellow | 183 |
| | | Mountain whitefish | 308 | | | | | 0 | | |
| | | Mountain whitefish | 329 | | | | | 0 | | |
| | | Mountain whitefish | 144 | 36 | | | | 0 | | |
| | | Mountain whitefish | 313 | 358 | | | | 0 | Yellow | 206 |
| | | Mountain whitefish | 140 | 28 | | | | 0 | | |
| | | Mountain whitefish | 197 | 96 | | | | 0 | | |
| | | Mountain whitefish | 145 | 30 | | | | 0 | | |
| | | Mountain whitefish | 319 | | | | | 0 | Yellow | 178 |
| | | Mountain whitefish | 200 | 88 | | | | 0 | | |
| | | Mountain whitefish | 190 | | | | | 0 | | |
| | | Mountain whitefish | 196 | 96 | | | | 0 | | |
| | | Mountain whitefish | 175 | 60 | | | | 0 | | |
| | | Mountain whitefish | 201 | | | | | 0 | | |
| | | Mountain whitefish | 219 | 114 | | | | 0 | | |
| | | Mountain whitefish | 206 | 100 | | | | 0 | | |
| | | Mountain whitefish | 200 | | | | | 0 | | |
| | | Mountain whitefish | 227 | | | | | 0 | | |
| | | Mountain whitefish | 216 | | | | | 0 | | |
| | | Mountain whitefish | 327 | | | | | 0 | Yellow | 203 |
| | | Mountain whitefish | 321 | | | | | 0 | Yellow | 202 |
| | | Mountain whitefish | 312 | | | | | 0 | | |
| | | Mountain whitefish | 177 | 60 | | | | 0 | | |
| | | Mountain whitefish | 337 | | | | | 0 | Yellow | 192 |
| | | Mountain whitefish | 310 | | | | | 0 | Yellow | 198 |
| | | Mountain whitefish | 341 | | | | | 0 | Yellow | 197 |
| | | Mountain whitefish | 202 | | | | | 0 | | |
| | | Mountain whitefish | 259 | | | | | 0 | Yellow | 200 |
| | | Mountain whitefish | 318 | | | | | 0 | Yellow | 186 |
| | | Mountain whitefish | 320 | | | | | 0 | Yellow | 187 |

Appendix C Table C1. Life history data for fish sampled during Phase I of the Peace River Fish Community Indexing Program, 2001

| Area and Waterbody | Site Label Sample Date and Kilometre | Common Name | Fork Length (mm) | Weight (gm) | Sexual Maturity | Age Structure | Age | Capt. Code | Tag Colour | Tag Number |
|--------------------|--|--------------------|---------------------|----------------|--------------------|------------------|-----|---------------|---------------|---------------|
| Zone 4 Peace River | | | | | | | | | | |
| | ES0408 17/08/2001 133.0 | Mountain whitefish | 311 | | | | | 0 | Yellow | 188 |
| | | Mountain whitefish | 277 | | | | | 0 | Yellow | 189 |
| | | Mountain whitefish | 325 | | | | | 0 | Yellow | 190 |
| | | Mountain whitefish | 215 | | | | | 0 | | |
| | | Mountain whitefish | 317 | | | | | 0 | Yellow | 179 |
| | | Mountain whitefish | 274 | | | | | 0 | Yellow | 195 |
| | | Mountain whitefish | 385 | | | | | 0 | Yellow | 182 |
| | | Mountain whitefish | 350 | | | | | 0 | Yellow | 177 |
| | | Mountain whitefish | 333 | | | | | 0 | Yellow | 185 |
| | | Mountain whitefish | 302 | | | | | 0 | | |
| | | Mountain whitefish | 182 | 30 | | | | 0 | | |
| | | Mountain whitefish | 308 | | | | | 0 | Yellow | 170 |
| | | Mountain whitefish | 329 | | | | | 0 | | |
| | | Mountain whitefish | 337 | | | | | 0 | | |
| | | Mountain whitefish | 321 | | | | | 0 | | |
| | | Mountain whitefish | 267 | | | | | 0 | | |
| | | Mountain whitefish | 334 | | | | | 0 | Yellow | 196 |
| | | Mountain whitefish | 326 | | | | | 0 | Yellow | 193 |
| | | Mountain whitefish | 420 | | | | | 0 | Yellow | 181 |
| | | Rainbow trout | 227 | 148 | | | | 0 | | |
| | | Rainbow trout | 364 | | | | | 0 | Yellow | 191 |
| | | Rainbow trout | 385 | 584 | | | | 0 | Yellow | 180 |
| | | Rainbow trout | 319 | 394 | | | | 0 | Yellow | 204 |
| | | Rainbow trout | 384 | 618 | | | | 0 | Yellow | 205 |
| | | Rainbow trout | 280 | 252 | | | | 0 | Yellow | 207 |
| | | Rainbow trout | 312 | 342 | | | | 0 | Yellow | 199 |
| | | Bull trout | 431 | 794 | | Fin Ray | 5 | 0 | Yellow | 1200 |
| | | Bull trout | 361 | 498 | | Fin Ray | 4 | 0 | Yellow | 1223 |
| | | Largescale sucker | 510 | 1710 | | | | 0 | Yellow | 1219 |
| | | Largescale sucker | 504 | 1612 | | | | 0 | Yellow | 1188 |
| | | Longnose sucker | 430 | 1012 | | | | 0 | Yellow | 1212 |
| | | Longnose sucker | 406 | 864 | | | | 0 | Yellow | 1209 |
| | | Longnose sucker | 395 | 822 | | | | 0 | Yellow | 1191 |
| | | Longnose sucker | 352 | 502 | | | | 0 | Yellow | 1204 |
| | | Mountain whitefish | 295 | | | | | 0 | | |
| | | Mountain whitefish | 288 | | | | | 0 | Yellow | 1190 |
| | | Mountain whitefish | 302 | | | | | 0 | | |
| | | Mountain whitefish | 289 | | | | | 0 | Yellow | 1196 |
| | | Mountain whitefish | 314 | | | | | 0 | Yellow | 1186 |
| | | Mountain whitefish | 351 | | | | | 0 | Yellow | 1187 |
| | | Mountain whitefish | 305 | | | | | 0 | Yellow | 1189 |
| | | Mountain whitefish | 324 | | | | | 0 | Yellow | 1222 |
| | | Mountain whitefish | 333 | | | | | 0 | Yellow | 1192 |
| | | Mountain whitefish | 301 | | | | | 0 | Yellow | 1193 |
| | | Mountain whitefish | 324 | | | | | 0 | Yellow | 1194 |
| | | Mountain whitefish | 324 | | | | | 0 | Yellow | 1195 |
| | | Mountain whitefish | 295 | | | | | 0 | Yellow | 1199 |
| | | Mountain whitefish | 316 | | | | | 0 | Yellow | 1217 |
| | | Mountain whitefish | 294 | | | | | 0 | | |

Appendix C Table C1. Life history data for fish sampled during Phase I of the Peace River Fish Community Indexing Program, 2001

| Area and Waterbody | Site Label Sample Date and Kilometre | Common Name | Fork Length (mm) | Weight (gm) | Sexual Maturity | Age Structure | Age | Capt. Code | Tag Colour | Tag Number |
|--------------------|--|--------------------|---------------------|----------------|--------------------|------------------|-----|---------------|---------------|---------------|
| Zone 4 Peace River | | | | | | | | | | |
| | ES0408 17/08/2001 133.0 | Mountain whitefish | 320 | | | | | 0 | Yellow | 1201 |
| | | Mountain whitefish | 298 | | | | | 0 | Yellow | 1198 |
| | | Mountain whitefish | 321 | | | | | 0 | Yellow | 1207 |
| | | Mountain whitefish | 326 | | | | | 0 | Yellow | 1214 |
| | | Mountain whitefish | 353 | | | | | 0 | | |
| | | Mountain whitefish | 338 | | | | | 0 | Yellow | 1206 |
| | | Mountain whitefish | 288 | | | | | 0 | Yellow | 1220 |
| | | Mountain whitefish | 174 | 60 | | | | 0 | | |
| | | Mountain whitefish | 278 | | | | | 0 | Yellow | 1221 |
| | | Mountain whitefish | 303 | | | | | 0 | Yellow | 1208 |
| | | Mountain whitefish | 323 | | | | | 0 | Yellow | 1210 |
| | | Mountain whitefish | 300 | | | | | 0 | Yellow | 1218 |
| | | Mountain whitefish | 311 | | | | | 0 | Yellow | 1205 |
| | | Mountain whitefish | 315 | | | | | 0 | Yellow | 1213 |
| | | Mountain whitefish | 326 | | | | | 0 | Yellow | 1203 |
| | | Mountain whitefish | 210 | 108 | | | | 0 | | |
| | | Mountain whitefish | 298 | | | | | 0 | Yellow | 1215 |
| | | Mountain whitefish | 340 | | | | | 0 | Yellow | 1216 |
| | | Mountain whitefish | 324 | | | | | 0 | Yellow | 1211 |
| | | Rainbow trout | 334 | 410 | | | | 0 | Yellow | 1224 |
| | | Rainbow trout | 429 | 708 | | | | 0 | Yellow | 1197 |
| | | Rainbow trout | 329 | 356 | | | | 0 | Yellow | 1202 |
| | ES0409 18/08/2001 128.7 | Bull trout | 213 | 114 | | | | 0 | | |
| | | Bull trout | 199 | 76 | | | | 0 | | |
| | | Mountain whitefish | 245 | 158 | | | | 0 | | |
| | | Mountain whitefish | 340 | | | | | 0 | | |
| | | Mountain whitefish | 304 | | | | | 0 | Yellow | 237 |
| | | Mountain whitefish | 356 | 418 | | | | 0 | Yellow | 232 |
| | | Mountain whitefish | | | | | | 0 | | |
| | | Mountain whitefish | 131 | 20 | | | | 0 | | |
| | | Mountain whitefish | 286 | | | | | 0 | Yellow | 233 |
| | | Mountain whitefish | 226 | 132 | | | | 0 | | |
| | | Mountain whitefish | 158 | 38 | | | | 0 | | |
| | | Mountain whitefish | 226 | 116 | | | | 0 | | |
| | | Mountain whitefish | 280 | | | | | 0 | Yellow | 231 |
| | | Mountain whitefish | 201 | 82 | | | | 0 | | |
| | | Mountain whitefish | 299 | | | | | 0 | Yellow | 234 |
| | | Mountain whitefish | 340 | | | | | 0 | Yellow | 238 |
| | | Mountain whitefish | 337 | | | | | 0 | Yellow | 235 |
| | | Mountain whitefish | 144 | 28 | | | | 0 | | |
| | | Mountain whitefish | 193 | 72 | | | | 0 | | |
| | | Mountain whitefish | 142 | 30 | | | | 0 | | |
| | | Mountain whitefish | 192 | 70 | | | | 0 | | |
| | | Mountain whitefish | 279 | 274 | | | | 0 | | |
| | | Mountain whitefish | 210 | 94 | | | | 0 | | |
| | | Mountain whitefish | 303 | | | | | 0 | | |
| | | Mountain whitefish | 322 | | | | | 0 | Yellow | 219 |
| | | Mountain whitefish | 294 | 308 | | | | 0 | Yellow | 211 |

Appendix C Table C1. Life history data for fish sampled during Phase I of the Peace River Fish Community Indexing Program, 2001

| Area and Waterbody | Site Label Sample Date and Kilometre | Common Name | Fork Length (mm) | Weight (gm) | Sexual Maturity | Age Structure | Age | Capt. Code | Tag Colour | Tag Number |
|--------------------|--|--------------------|---------------------|----------------|--------------------|------------------|-----|---------------|---------------|---------------|
| Zone 4 Peace River | | | | | | | | | | |
| | ES0409 18/08/2001 | 128.7 | | | | | | | | |
| | | Mountain whitefish | 284 | 272 | | | | 0 | Yellow | 212 |
| | | Mountain whitefish | 299 | 282 | | | | 0 | Yellow | 214 |
| | | Mountain whitefish | 313 | | | | | 0 | Yellow | 230 |
| | | Mountain whitefish | 347 | 510 | | | | 0 | Yellow | 215 |
| | | Mountain whitefish | 371 | 524 | | | | 0 | Yellow | 216 |
| | | Mountain whitefish | 322 | 376 | | | | 0 | Yellow | 217 |
| | | Mountain whitefish | 277 | | | | | 0 | | |
| | | Mountain whitefish | 314 | | | | | 0 | Yellow | 218 |
| | | Mountain whitefish | | | | | | 0 | | |
| | | Mountain whitefish | 200 | 80 | | | | 0 | | |
| | | Mountain whitefish | 299 | | | | | 0 | Yellow | 239 |
| | | Mountain whitefish | 204 | 84 | | | | 0 | | |
| | | Mountain whitefish | 152 | 30 | | | | 0 | | |
| | | Mountain whitefish | 214 | 96 | | | | 0 | | |
| | | Mountain whitefish | 268 | | | | | 0 | Yellow | 240 |
| | | Mountain whitefish | 207 | 98 | | | | 0 | | |
| | | Mountain whitefish | 142 | 32 | | | | 0 | | |
| | | Mountain whitefish | 256 | | | | | 0 | | |
| | | Mountain whitefish | 196 | 82 | | | | 0 | | |
| | | Mountain whitefish | 205 | 100 | | | | 0 | | |
| | | Mountain whitefish | 310 | 318 | | | | 0 | Yellow | 213 |
| | | Mountain whitefish | 298 | | | | | 0 | Yellow | 236 |
| | | Mountain whitefish | 306 | 322 | | | | 0 | Yellow | 208 |
| | | Mountain whitefish | 305 | 318 | | | | 0 | Yellow | 210 |
| | | Mountain whitefish | 310 | 300 | | | | 0 | Yellow | 209 |
| | | Mountain whitefish | 314 | 338 | | | | 0 | | |
| | | Mountain whitefish | 329 | | | | | 0 | Yellow | 229 |
| | | Mountain whitefish | 261 | | | | | 0 | Yellow | 227 |
| | | Mountain whitefish | 313 | | | | | 0 | Yellow | 226 |
| | | Mountain whitefish | 300 | | | | | 0 | Yellow | 225 |
| | | Mountain whitefish | 302 | | | | | 0 | Yellow | 224 |
| | | Mountain whitefish | 300 | | | | | 0 | Yellow | 228 |
| | | Mountain whitefish | 256 | | | | | 0 | Yellow | 223 |
| | | Mountain whitefish | 313 | | | | | 0 | | |
| | | Mountain whitefish | 257 | | | | | 0 | Yellow | 220 |
| | | Mountain whitefish | 310 | | | | | 0 | Yellow | 221 |
| | | Mountain whitefish | 320 | | | | | 0 | Yellow | 222 |
| | ES0410 18/08/2001 | 128.0 | | | | | | | | |
| | | Mountain whitefish | 207 | 88 | | | | 0 | | |
| | | Mountain whitefish | 298 | | | | | 0 | Yellow | 248 |
| | | Mountain whitefish | 228 | 130 | | | | 0 | | |
| | | Mountain whitefish | 320 | | | | | 0 | Yellow | 249 |
| | | Mountain whitefish | 204 | 84 | | | | 0 | | |
| | | Mountain whitefish | 203 | 94 | | | | 0 | | |
| | | Mountain whitefish | 198 | 72 | | | | 0 | | |
| | | Mountain whitefish | 329 | | | | | 0 | Yellow | 250 |
| | | Mountain whitefish | 277 | | | | | 0 | Yellow | 247 |
| | | Mountain whitefish | | | | | | 0 | | |
| | | Mountain whitefish | 183 | 66 | | | | 0 | | |

Appendix C Table C1. Life history data for fish sampled during Phase I of the Peace River Fish Community Indexing Program, 2001

| Area and Waterbody | Site Label Sample Date and Kilometre | Common Name | Fork Length (mm) | Weight (gm) | Sexual Maturity | Age Structure | Age | Capt. Code | Tag Colour | Tag Number |
|--------------------|--------------------------------------|--------------------|------------------|-------------|-----------------|---------------|-----|------------|------------|------------|
| Zone 4 Peace River | | | | | | | | | | |
| | ES0410 18/08/2001 128.0 | Mountain whitefish | 144 | 30 | | | | 0 | | |
| | | Mountain whitefish | 224 | 114 | | | | 0 | | |
| | | Mountain whitefish | 206 | 92 | | | | 0 | | |
| | | Mountain whitefish | 208 | 84 | | | | 0 | | |
| | | Mountain whitefish | 197 | 76 | | | | 0 | | |
| | | Mountain whitefish | 193 | 68 | | | | 0 | | |
| | | Mountain whitefish | 198 | 72 | | | | 0 | | |
| | | Mountain whitefish | 188 | 60 | | | | 0 | | |
| | | Mountain whitefish | 298 | | | | | 0 | Yellow | 246 |
| | | Mountain whitefish | 195 | 76 | | | | 0 | | |
| | | Mountain whitefish | 212 | 98 | | | | 0 | | |
| | | Mountain whitefish | 215 | 98 | | | | 0 | | |
| | | Mountain whitefish | 307 | | | | | 0 | Yellow | 242 |
| | | Mountain whitefish | | | | | | 0 | | |
| | | Mountain whitefish | 127 | 20 | | | | 0 | | |
| | | Mountain whitefish | 150 | 34 | | | | 0 | | |
| | | Mountain whitefish | 309 | | | | | 0 | Yellow | 245 |
| | | Mountain whitefish | 252 | | | | | 0 | Yellow | 243 |
| | | Mountain whitefish | 440 | | | | | 0 | | |
| | | Mountain whitefish | 210 | | | | | 0 | | |
| | | Mountain whitefish | 365 | | | | | 0 | Yellow | 241 |
| | | Mountain whitefish | 288 | | | | | 1 | | |
| | | Mountain whitefish | 177 | 52 | | | | 0 | | |
| | | Mountain whitefish | 384 | 554 | | | | 0 | Yellow | 244 |
| | | Mountain whitefish | 260 | 76 | | | | 0 | | |
| | | Mountain whitefish | 148 | 28 | | | | 0 | | |
| | | Mountain whitefish | 135 | 22 | | | | 0 | | |
| | | Mountain whitefish | 149 | 32 | | | | 0 | | |
| | | Mountain whitefish | 154 | 32 | | | | 0 | | |
| | | Mountain whitefish | 195 | 72 | | | | 0 | | |
| | | Mountain whitefish | 217 | 68 | | | | 0 | | |
| | | Mountain whitefish | 222 | 108 | | | | 0 | | |
| | | Mountain whitefish | 148 | 28 | | | | 0 | | |
| | | Bull trout | 427 | 734 | | Fin Ray | 4 | 0 | Yellow | 1299 |
| | | Bull trout | 461 | 842 | | Fin Ray | 6 | 0 | Yellow | 1300 |
| | | Largescale sucker | 477 | 1450 | | | | 0 | Yellow | 1274 |
| | | Largescale sucker | 543 | 2028 | | | | 0 | Yellow | 1235 |
| | | Largescale sucker | 468 | 1328 | | | | 0 | Yellow | 1275 |
| | | Longnose sucker | 400 | 826 | | | | 0 | Yellow | 1226 |
| | | Mountain whitefish | 310 | | | | | 0 | Yellow | 1237 |
| | | Mountain whitefish | 288 | | | | | 0 | | |
| | | Mountain whitefish | 250 | | | | | 0 | Yellow | 1231 |
| | | Mountain whitefish | 285 | | | | | 0 | Yellow | 1239 |
| | | Mountain whitefish | 342 | | | | | 0 | Yellow | 1233 |
| | | Mountain whitefish | 332 | | | | | 0 | Yellow | 1269 |
| | | Mountain whitefish | 313 | | | | | 0 | Yellow | 1230 |
| | | Mountain whitefish | 291 | | | | | 0 | Yellow | 1229 |
| | | Mountain whitefish | 326 | | | | | 0 | | |
| | | Mountain whitefish | 301 | | | | | 0 | Yellow | 1253 |

Appendix C Table C1. Life history data for fish sampled during Phase I of the Peace River Fish Community Indexing Program, 2001

| Area and Waterbody | Site Label Sample Date and Kilometre | Common Name | Fork Length (mm) | Weight (gm) | Sexual Maturity | Age Structure | Age | Capt. Code | Tag Colour | Tag Number |
|--------------------|--|--------------------|---------------------|----------------|--------------------|------------------|-----|---------------|---------------|---------------|
| Zone 4 Peace River | | | | | | | | | | |
| | ES0410 18/08/2001 | 128.0 | | | | | | | | |
| | | Mountain whitefish | 296 | | | | | 0 | Yellow | 1236 |
| | | Mountain whitefish | 300 | | | | | 0 | Yellow | 1238 |
| | | Mountain whitefish | 166 | 52 | | | | 0 | | |
| | | Mountain whitefish | 333 | | | | | 0 | | |
| | | Mountain whitefish | 206 | | | | | 0 | | |
| | | Mountain whitefish | 210 | | | | | 0 | | |
| | | Mountain whitefish | 263 | | | | | 0 | Yellow | 1270 |
| | | Mountain whitefish | 260 | | | | | 0 | Yellow | 1271 |
| | | Mountain whitefish | 302 | | | | | 0 | | |
| | | Mountain whitefish | 295 | | | | | 0 | Yellow | 1246 |
| | | Mountain whitefish | 293 | | | | | 0 | Yellow | 1227 |
| | | Mountain whitefish | 218 | | | | | 0 | | |
| | | Mountain whitefish | 275 | | | | | 0 | Yellow | 1240 |
| | | Mountain whitefish | 231 | | | | | 0 | | |
| | | Mountain whitefish | 293 | | | | | 0 | Yellow | 1241 |
| | | Mountain whitefish | 345 | | | | | 0 | Yellow | 1242 |
| | | Mountain whitefish | 329 | | | | | 0 | Yellow | 1225 |
| | | Mountain whitefish | 285 | | | | | 0 | Yellow | 1243 |
| | | Mountain whitefish | 152 | 38 | | | | 0 | | |
| | | Mountain whitefish | 316 | | | | | 0 | Yellow | 1228 |
| | | Mountain whitefish | 284 | | | | | 0 | Yellow | 1247 |
| | | Mountain whitefish | 342 | | | | | 0 | Yellow | 1248 |
| | | Mountain whitefish | 337 | | | | | 0 | Yellow | 1249 |
| | | Mountain whitefish | 321 | | | | | 0 | Yellow | 1250 |
| | | Mountain whitefish | 293 | | | | | 0 | Yellow | 1252 |
| | | Mountain whitefish | 324 | | | | | 0 | Yellow | 1245 |
| | | Mountain whitefish | 290 | | | | | 0 | Yellow | 1232 |
| | | Mountain whitefish | 245 | | | | | 0 | | |
| | | Mountain whitefish | 306 | | | | | 0 | Yellow | 1263 |
| | | Mountain whitefish | 292 | | | | | 0 | Yellow | 1256 |
| | | Mountain whitefish | 307 | | | | | 0 | Yellow | 1257 |
| | | Mountain whitefish | 310 | | | | | 0 | Yellow | 1258 |
| | | Mountain whitefish | 331 | | | | | 0 | Yellow | 1259 |
| | | Mountain whitefish | 230 | | | | | 0 | | |
| | | Mountain whitefish | 316 | | | | | 0 | Yellow | 1260 |
| | | Mountain whitefish | 295 | | | | | 0 | Yellow | 1255 |
| | | Mountain whitefish | 221 | | | | | 0 | | |
| | | Mountain whitefish | 232 | | | | | 0 | | |
| | | Mountain whitefish | 190 | | | | | 0 | | |
| | | Mountain whitefish | 307 | | | | | 0 | Yellow | 1261 |
| | | Mountain whitefish | 336 | | | | | 0 | Yellow | 1265 |
| | | Mountain whitefish | 289 | | | | | 0 | Yellow | 1266 |
| | | Mountain whitefish | 292 | | | | | 0 | Yellow | 1244 |
| | | Mountain whitefish | 321 | | | | | 0 | | |
| | | Mountain whitefish | 308 | | | | | 0 | Yellow | 1262 |
| | | Mountain whitefish | 302 | | | | | 0 | Yellow | 1272 |
| | | Mountain whitefish | 265 | | | | | 0 | Yellow | 1264 |
| | | Mountain whitefish | 291 | | | | | 0 | | |
| | | Mountain whitefish | 302 | | | | | 0 | Yellow | 1267 |

Appendix C Table C1. Life history data for fish sampled during Phase I of the Peace River Fish Community Indexing Program, 2001

| Area and Waterbody | Site Label Sample Date and Kilometre | Common Name | Fork Length (mm) | Weight (gm) | Sexual Maturity | Age Structure | Age | Capt. Code | Tag Colour | Tag Number |
|--------------------|--|---------------------|---------------------|----------------|--------------------|------------------|-----|---------------|---------------|---------------|
| Zone 4 Peace River | | | | | | | | | | |
| | ES0410 | 18/08/2001 | 128.0 | | | | | | | |
| | | Mountain whitefish | 293 | | | | | 0 | Yellow | 1268 |
| | | Mountain whitefish | 157 | 38 | | | | 0 | | |
| | | Mountain whitefish | 312 | | | | | 0 | Yellow | 1297 |
| | | Mountain whitefish | 156 | 42 | | | | 0 | | |
| | | Mountain whitefish | 162 | 46 | | | | 0 | | |
| | | Mountain whitefish | 172 | | | | | 0 | | |
| | | Mountain whitefish | 332 | | | | | 0 | Yellow | 1298 |
| | | Mountain whitefish | 165 | | | | | 0 | | |
| | | Mountain whitefish | 191 | | | | | 0 | | |
| | | Mountain whitefish | 305 | | | | | 0 | Yellow | 1296 |
| | | Mountain whitefish | 333 | | | | | 0 | Yellow | 1251 |
| | | Mountain whitefish | 272 | | | | | 0 | Yellow | 1273 |
| | | Mountain whitefish | 245 | | | | | 0 | | |
| | | Mountain whitefish | 325 | | | | | 0 | Yellow | 1254 |
| | | Northern pikeminnow | 322 | 420 | | | | 0 | | |
| | | Northern pikeminnow | 347 | 576 | | | | 0 | Yellow | 1234 |
| | ES0411 | 18/08/2001 | 126.7 | | | | | | | |
| | | Largescale sucker | 381 | 636 | | Fin Ray | 10 | 0 | Yellow | 253 |
| | | Largescale sucker | 366 | 592 | | Fin Ray | 7 | 0 | Yellow | 252 |
| | | Largescale sucker | 458 | 1274 | | Fin Ray | 13 | 0 | Yellow | 256 |
| | | Largescale sucker | 465 | 1400 | | Fin Ray | 13 | 0 | | |
| | | Largescale sucker | 404 | 816 | | Fin Ray | 11 | 0 | Yellow | 254 |
| | | Largescale sucker | 416 | 870 | | Fin Ray | 7 | 0 | Yellow | 258 |
| | | Longnose sucker | 376 | 698 | | Fin Ray | 9 | 0 | Yellow | 255 |
| | | Longnose sucker | 407 | 784 | | Fin Ray | 10 | 0 | Yellow | 257 |
| | | Redside shiner | 137 | 22 | | | | 0 | | |
| | | Largescale sucker | 422 | 902 | | | | 0 | Yellow | 1288 |
| | | Mountain whitefish | 300 | | | | | 0 | Yellow | 1284 |
| | | Mountain whitefish | 325 | | | | | 0 | Yellow | 1291 |
| | | Mountain whitefish | 347 | | | | | 0 | Yellow | 1287 |
| | | Mountain whitefish | 326 | | | | | 0 | Yellow | 1292 |
| | | Mountain whitefish | 253 | | | | | 0 | Yellow | 1289 |
| | | Mountain whitefish | 300 | | | | | 0 | Yellow | 1293 |
| | | Mountain whitefish | 276 | | | | | 0 | Yellow | 1295 |
| | | Mountain whitefish | 281 | | | | | 0 | Yellow | 1286 |
| | | Mountain whitefish | 299 | | | | | 0 | Yellow | 1283 |
| | | Mountain whitefish | 308 | | | | | 0 | Yellow | 1290 |
| | | Mountain whitefish | 320 | | | | | 0 | Yellow | 1285 |
| | | Mountain whitefish | 356 | | | | | 0 | Yellow | 1294 |
| | ES0412 | 18/08/2001 | 125.0 | | | | | | | |
| | | Arctic grayling | 280 | 226 | | | | 0 | | |
| | | Bull trout | 440 | | | | | 0 | Yellow | 259 |
| | | Bull trout | 316 | 340 | | | | 0 | Yellow | 270 |
| | | Mountain whitefish | 370 | 580 | | | | 0 | Yellow | 279 |
| | | Mountain whitefish | 398 | 784 | | | | 0 | Yellow | 260 |
| | | Mountain whitefish | 344 | | | | | 0 | Yellow | 261 |
| | | Mountain whitefish | 364 | 500 | | | | 0 | Yellow | 271 |
| | | Mountain whitefish | 322 | | | | | 0 | Yellow | 272 |
| | | Mountain whitefish | 332 | | | | | 0 | Yellow | 273 |

Appendix C Table C1. Life history data for fish sampled during Phase I of the Peace River Fish Community Indexing Program, 2001

| Area and Waterbody | Site Label Sample Date and Kilometre | Common Name | Fork Length (mm) | Weight (gm) | Sexual Maturity | Age Structure | Age | Capt. Code | Tag Colour | Tag Number |
|--------------------|--|--------------------|---------------------|----------------|--------------------|------------------|-----|---------------|---------------|---------------|
| Zone 4 Peace River | | | | | | | | | | |
| | ES0412 18/08/2001 | 125.0 | | | | | | | | |
| | | Mountain whitefish | 196 | 86 | | | | 0 | | |
| | | Mountain whitefish | 322 | | | | | 0 | | |
| | | Mountain whitefish | 330 | | | | | 0 | Yellow | 263 |
| | | Mountain whitefish | 304 | | | | | 0 | Yellow | 262 |
| | | Mountain whitefish | 389 | 624 | | | | 0 | Yellow | 264 |
| | | Mountain whitefish | 306 | | | | | 0 | Yellow | 278 |
| | | Mountain whitefish | 294 | | | | | 0 | Yellow | 277 |
| | | Mountain whitefish | 208 | 94 | | | | 0 | | |
| | | Mountain whitefish | 301 | | | | | 0 | Yellow | 276 |
| | | Mountain whitefish | 320 | | | | | 0 | Yellow | 274 |
| | | Mountain whitefish | 338 | | | | | 0 | | |
| | | Mountain whitefish | 202 | 80 | | | | 0 | | |
| | | Mountain whitefish | 216 | 98 | | | | 0 | | |
| | | Mountain whitefish | 324 | | | | | 0 | Yellow | 275 |
| | | Mountain whitefish | 261 | | | | | 0 | Yellow | 282 |
| | | Mountain whitefish | 245 | 148 | | | | 0 | | |
| | | Mountain whitefish | 186 | 68 | | | | 0 | | |
| | | Mountain whitefish | 204 | 84 | | | | 0 | | |
| | | Mountain whitefish | 413 | 662 | | | | 0 | Yellow | 251 |
| | | Mountain whitefish | 267 | | | | | 0 | Yellow | 269 |
| | | Mountain whitefish | 315 | | | | | 0 | Yellow | 280 |
| | | Mountain whitefish | 313 | | | | | 0 | Yellow | 268 |
| | | Mountain whitefish | 338 | | | | | 0 | Yellow | 267 |
| | | Mountain whitefish | 336 | | | | | 0 | Yellow | 266 |
| | | Mountain whitefish | 349 | | | | | 0 | Yellow | 265 |
| | | Mountain whitefish | 199 | 78 | | | | 0 | | |
| | | Rainbow trout | 335 | | | | | 0 | Yellow | 281 |
| | | Rainbow trout | 159 | 42 | | | | 0 | | |
| | | Arctic grayling | 383 | 624 | | | | 0 | Yellow | 1279 |
| | | Bull trout | 284 | 246 | | Fin Ray | 3 | 0 | Yellow | 1330 |
| | | Largescale sucker | 415 | 1020 | | | | 0 | Yellow | 1314 |
| | | Largescale sucker | 439 | 906 | | | | 0 | Yellow | 1280 |
| | | Largescale sucker | 483 | 1316 | | | | 0 | Yellow | 1307 |
| | | Longnose sucker | 423 | 1052 | | | | 0 | Yellow | 1311 |
| | | Mountain whitefish | 314 | | | | | 0 | Yellow | 1327 |
| | | Mountain whitefish | 339 | | | | | 0 | Yellow | 1305 |
| | | Mountain whitefish | 262 | | | | | 0 | Yellow | 1281 |
| | | Mountain whitefish | 315 | | | | | 0 | Yellow | 1325 |
| | | Mountain whitefish | 298 | | | | | 0 | Yellow | 1277 |
| | | Mountain whitefish | 304 | | | | | 0 | Yellow | 1276 |
| | | Mountain whitefish | 333 | | | | | 0 | Yellow | 1301 |
| | | Mountain whitefish | 304 | | | | | 0 | Yellow | 1317 |
| | | Mountain whitefish | 310 | | | | | 0 | Yellow | 1308 |
| | | Mountain whitefish | 315 | | | | | 0 | Yellow | 1313 |
| | | Mountain whitefish | 440 | 1010 | | | | 0 | Yellow | 1282 |
| | | Mountain whitefish | 283 | | | | | 0 | Yellow | 1306 |
| | | Mountain whitefish | 227 | | | | | 0 | | |
| | | Mountain whitefish | 271 | | | | | 0 | Yellow | 1304 |
| | | Mountain whitefish | 333 | | | | | 0 | Yellow | 1309 |

Appendix C Table C1. Life history data for fish sampled during Phase I of the Peace River Fish Community Indexing Program, 2001

| Area and Waterbody | Site Label Sample Date and Kilometre | Common Name | Fork Length (mm) | Weight (gm) | Sexual Maturity | Age Structure | Age | Capt. Code | Tag Colour | Tag Number |
|--------------------|--|--------------------|---------------------|----------------|--------------------|------------------|-----|---------------|---------------|---------------|
| Zone 4 Peace River | | | | | | | | | | |
| | ES0412 18/08/2001 125.0 | Mountain whitefish | 221 | | | | | 0 | | |
| | | Mountain whitefish | 299 | | | | | 0 | Yellow | 1312 |
| | | Mountain whitefish | 335 | | | | | 0 | Yellow | 1302 |
| | | Mountain whitefish | 343 | | | | | 0 | Yellow | 1303 |
| | | Mountain whitefish | 305 | | | | | 0 | Yellow | 1316 |
| | | Mountain whitefish | 286 | | | | | 0 | Yellow | 1322 |
| | | Mountain whitefish | 305 | | | | | 0 | Yellow | 1329 |
| | | Mountain whitefish | 331 | | | | | 0 | Yellow | 1318 |
| | | Mountain whitefish | 223 | | | | | 0 | | |
| | | Mountain whitefish | 308 | | | | | 0 | Yellow | 1319 |
| | | Mountain whitefish | 298 | | | | | 0 | Yellow | 1278 |
| | | Mountain whitefish | 324 | | | | | 0 | Yellow | 1321 |
| | | Mountain whitefish | 340 | | | | | 0 | | |
| | | Mountain whitefish | 229 | | | | | 0 | | |
| | | Mountain whitefish | 318 | | | | | 0 | Yellow | 1315 |
| | | Mountain whitefish | 392 | 612 | | | | 0 | Yellow | 1323 |
| | | Mountain whitefish | 328 | | | | | 0 | Yellow | 1324 |
| | | Mountain whitefish | 222 | | | | | 0 | | |
| | | Mountain whitefish | 311 | | | | | 0 | Yellow | 1326 |
| | | Mountain whitefish | 295 | | | | | 0 | Yellow | 1328 |
| | | Mountain whitefish | 240 | | | | | 0 | | |
| | | Mountain whitefish | 274 | | | | | 0 | Yellow | 1320 |
| | | Rainbow trout | 192 | | | | | 0 | | |
| | | Rainbow trout | 377 | 574 | | | | 0 | Yellow | 1310 |
| | ES0413 18/08/2001 123.0 | Arctic grayling | 378 | 770 | 10 | | | 0 | Yellow | 286 |
| | | Arctic grayling | 239 | 162 | | | | 0 | | |
| | | Arctic grayling | 278 | 244 | | | | 0 | Yellow | 292 |
| | | Arctic grayling | 180 | 76 | | | | 0 | | |
| | | Bull trout | 283 | 242 | | | | 0 | Yellow | 302 |
| | | Bull trout | 369 | 474 | | | | 0 | Yellow | 300 |
| | | Bull trout | 258 | 178 | | | | 0 | Yellow | 298 |
| | | Mountain whitefish | 319 | | | | | 0 | Yellow | 283 |
| | | Mountain whitefish | 295 | | | | | 0 | Yellow | 297 |
| | | Mountain whitefish | 361 | 516 | | | | 0 | Yellow | 289 |
| | | Mountain whitefish | 304 | | | | | 0 | Yellow | 288 |
| | | Mountain whitefish | 305 | | | | | 0 | | |
| | | Mountain whitefish | 199 | 76 | | | | 0 | | |
| | | Mountain whitefish | 339 | | | | | 0 | | |
| | | Mountain whitefish | 323 | | | | | 0 | Yellow | 301 |
| | | Mountain whitefish | 347 | | | | | 0 | | |
| | | Mountain whitefish | 331 | | | | | 0 | Yellow | 295 |
| | | Mountain whitefish | 353 | | | | | 0 | Yellow | 284 |
| | | Mountain whitefish | 285 | | | | | 0 | Yellow | 285 |
| | | Mountain whitefish | 259 | | | | | 0 | Yellow | 299 |
| | | Mountain whitefish | 320 | | | | | 0 | Yellow | 290 |
| | | Mountain whitefish | 272 | | | | | 0 | Yellow | 296 |
| | | Mountain whitefish | 208 | 80 | | | | 0 | | |
| | | Mountain whitefish | 235 | 134 | | | | 0 | | |

Appendix C Table C1. Life history data for fish sampled during Phase I of the Peace River Fish Community Indexing Program, 2001

| Area and Waterbody | Site Label Sample Date and Kilometre | Common Name | Fork Length (mm) | Weight (gm) | Sexual Maturity | Age Structure | Age | Capt. Code | Tag Colour | Tag Number |
|--------------------|--|--------------------|---------------------|----------------|--------------------|------------------|-----|---------------|---------------|---------------|
| Zone 4 Peace River | | | | | | | | | | |
| | ES0413 18/08/2001 | 123.0 | | | | | | | | |
| | | Mountain whitefish | 222 | 108 | | | | 0 | | |
| | | Mountain whitefish | 318 | | | | | 0 | Yellow | 291 |
| | | Mountain whitefish | 330 | | | | | 0 | Yellow | 294 |
| | | Mountain whitefish | 140 | 48 | | | | 0 | | |
| | | Mountain whitefish | 377 | 640 | | | | 0 | Yellow | 293 |
| | | Mountain whitefish | 201 | 80 | | | | 0 | | |
| | | Mountain whitefish | 205 | 94 | | | | 0 | | |
| | | Mountain whitefish | 328 | | | | | 0 | Yellow | 287 |
| | | Bull trout | 307 | 288 | | Fin Ray | 3 | 0 | Yellow | 1369 |
| | | Bull trout | 381 | 588 | | Fin Ray | 4 | 0 | Yellow | 1368 |
| | | Bull trout | 302 | 256 | | Fin Ray | | 0 | Yellow | 1372 |
| | | Kokanee | 142 | 36 | | Scale | 1 | 0 | | |
| | | Largescale sucker | 482 | 1616 | | | | 0 | | |
| | | Largescale sucker | 478 | 1394 | | | | 0 | Yellow | 1334 |
| | | Largescale sucker | 464 | 1512 | | | | 0 | Yellow | 1333 |
| | | Largescale sucker | 473 | 1392 | | | | 0 | Yellow | 1339 |
| | | Largescale sucker | 505 | 1802 | | | | 0 | Yellow | 1341 |
| | | Longnose sucker | 399 | 874 | 9 | | | 0 | Yellow | 1350 |
| | | Longnose sucker | 369 | 648 | | | | 0 | Yellow | 1342 |
| | | Longnose sucker | 356 | 554 | | | | 0 | Yellow | 1338 |
| | | Longnose sucker | 380 | 750 | | | | 0 | Yellow | 1336 |
| | | Longnose sucker | 348 | 564 | | | | 0 | Yellow | 1359 |
| | | Longnose sucker | 446 | 1088 | | | | 0 | Yellow | 1343 |
| | | Mountain whitefish | 290 | | | | | 0 | Yellow | 1358 |
| | | Mountain whitefish | 311 | | | | | 0 | Yellow | 1362 |
| | | Mountain whitefish | 218 | | | | | 0 | | |
| | | Mountain whitefish | 264 | | | | | 0 | Yellow | 1366 |
| | | Mountain whitefish | 208 | | | | | 0 | | |
| | | Mountain whitefish | 347 | | | | | 0 | | |
| | | Mountain whitefish | 292 | | | | | 0 | Yellow | 1355 |
| | | Mountain whitefish | 303 | | | | | 0 | Yellow | 1365 |
| | | Mountain whitefish | 316 | | | | | 0 | Yellow | 1364 |
| | | Mountain whitefish | 310 | | | | | 0 | Yellow | 1356 |
| | | Mountain whitefish | 307 | | | | | 0 | Yellow | 1357 |
| | | Mountain whitefish | 253 | | | | | 0 | Yellow | 1363 |
| | | Mountain whitefish | 303 | | | | | 0 | Yellow | 1361 |
| | | Mountain whitefish | 264 | | | | | 0 | Yellow | 1367 |
| | | Mountain whitefish | 266 | | | | | 0 | Yellow | 1354 |
| | | Mountain whitefish | 238 | | | | | 0 | | |
| | | Mountain whitefish | 292 | | | | | 0 | Yellow | 1337 |
| | | Mountain whitefish | 233 | | | | | 0 | | |
| | | Mountain whitefish | 307 | | | | | 0 | Yellow | 1371 |
| | | Mountain whitefish | 327 | | | | | 0 | | |
| | | Mountain whitefish | 433 | 1114 | | | | 0 | Yellow | 1332 |
| | | Mountain whitefish | 314 | | | | | 0 | Yellow | 1331 |
| | | Mountain whitefish | 217 | | | | | 0 | | |
| | | Mountain whitefish | 381 | 654 | | | | 0 | Yellow | 1352 |
| | | Mountain whitefish | 306 | | | | | 0 | | |
| | | Mountain whitefish | 217 | | | | | 0 | | |

Appendix C Table C1. Life history data for fish sampled during Phase I of the Peace River Fish Community Indexing Program, 2001

| Area and Waterbody | Site Label Sample Date and Kilometre | Common Name | Fork Length (mm) | Weight (gm) | Sexual Maturity | Age Structure | Age | Capt. Code | Tag Colour | Tag Number |
|--------------------|--|---------------------|---------------------|----------------|--------------------|------------------|-----|---------------|---------------|---------------|
| Zone 4 Peace River | | | | | | | | | | |
| | ES0413 18/08/2001 | 123.0 | | | | | | | | |
| | | Mountain whitefish | 270 | | | | | 0 | Yellow | 1346 |
| | | Mountain whitefish | 297 | | | | | 0 | Yellow | 1360 |
| | | Mountain whitefish | 245 | | | | | 0 | | |
| | | Mountain whitefish | 298 | | | | | 0 | Yellow | 1340 |
| | | Mountain whitefish | 294 | | | | | 0 | Yellow | 1347 |
| | | Mountain whitefish | 260 | | | | | 0 | Yellow | 1348 |
| | | Mountain whitefish | 277 | | | | | 0 | Yellow | 1351 |
| | | Mountain whitefish | 288 | | | | | 0 | Yellow | 1370 |
| | | Mountain whitefish | 212 | | | | | 0 | | |
| | | Northern pikeminnow | 423 | 884 | | | | 0 | Yellow | 1335 |
| | | Rainbow trout | 355 | 432 | | | | 0 | Yellow | 1349 |
| | | Rainbow trout | 427 | 778 | | | | 0 | Yellow | 1344 |
| | | Rainbow trout | 365 | 496 | | | | 0 | Yellow | 1345 |
| | | Rainbow trout | 387 | 688 | | | | 0 | | |
| | | Rainbow trout | 347 | 436 | | | | 0 | Yellow | 1353 |
| | ES0414 18/08/2001 | 121.0 | | | | | | | | |
| | | Arctic grayling | 392 | 660 | 10 | | | 0 | Yellow | 311 |
| | | Arctic grayling | 281 | 256 | | | | 0 | Yellow | 307 |
| | | Longnose sucker | 413 | 970 | | Fin Ray | 7 | 0 | Yellow | 304 |
| | | Mountain whitefish | 124 | 24 | | | | 0 | | |
| | | Mountain whitefish | 255 | | | | | 0 | Yellow | 310 |
| | | Mountain whitefish | 160 | 38 | | | | 0 | | |
| | | Mountain whitefish | 293 | | | | | 0 | Yellow | 304 |
| | | Mountain whitefish | 132 | 22 | | | | 0 | | |
| | | Mountain whitefish | 189 | 66 | | | | 0 | | |
| | | Mountain whitefish | 241 | 140 | | | | 0 | | |
| | | Mountain whitefish | 141 | 28 | | | | 0 | | |
| | | Mountain whitefish | 132 | 27 | | | | 0 | | |
| | | Mountain whitefish | 190 | 64 | | | | 0 | | |
| | | Mountain whitefish | 205 | 80 | | | | 0 | | |
| | | Mountain whitefish | 261 | | | | | 0 | Yellow | 316 |
| | | Mountain whitefish | 133 | 22 | | | | 0 | | |
| | | Mountain whitefish | 139 | 24 | | | | 0 | | |
| | | Mountain whitefish | 296 | | | | | 0 | Yellow | 312 |
| | | Mountain whitefish | 214 | 108 | | | | 0 | | |
| | | Mountain whitefish | 218 | 116 | | | | 0 | | |
| | | Mountain whitefish | 151 | 34 | | | | 0 | | |
| | | Mountain whitefish | 137 | 24 | | | | 0 | | |
| | | Mountain whitefish | 250 | | | | | 0 | Yellow | 315 |
| | | Mountain whitefish | 308 | | | | | 0 | Yellow | 306 |
| | | Mountain whitefish | 266 | | | | | 0 | Yellow | 313 |
| | | Mountain whitefish | 301 | | | | | 0 | Yellow | 305 |
| | | Mountain whitefish | 374 | 586 | | | | 0 | Yellow | 303 |
| | | Mountain whitefish | 298 | | | | | 0 | Yellow | 309 |
| | | Mountain whitefish | 306 | | | | | 0 | Yellow | 308 |
| | | Mountain whitefish | 306 | | | | | 0 | | |
| | | Mountain whitefish | 134 | 26 | | | | 0 | | |
| | | Mountain whitefish | 254 | | | | | 0 | Yellow | 314 |
| | | Rainbow trout | 156 | 48 | | | | 0 | | |

Appendix C Table C1. Life history data for fish sampled during Phase I of the Peace River Fish Community Indexing Program, 2001

| Area and Waterbody | Site Label Sample Date and Kilometre | Common Name | Fork Length (mm) | Weight (gm) | Sexual Maturity | Age Structure | Age | Capt. Code | Tag Colour | Tag Number |
|--------------------|--|--------------------|---------------------|----------------|--------------------|------------------|-----|---------------|---------------|---------------|
| Zone 4 Peace River | | | | | | | | | | |
| | ES0414 18/08/2001 121.0 | Rainbow trout | 178 | 56 | | | | 0 | | |
| | | Bull trout | 558 | 1512 | | Fin Ray | 7 | 0 | Yellow | 1428 |
| | | Bull trout | 455 | 840 | | Fin Ray | 6 | 0 | Yellow | 1423 |
| | | Bull trout | 462 | 912 | | Fin Ray | 5 | 0 | Yellow | 1418 |
| | | Largescale sucker | 486 | | | | | 0 | Yellow | 1407 |
| | | Longnose sucker | 396 | 642 | | | | 0 | Yellow | 1392 |
| | | Longnose sucker | 396 | 744 | | | | 0 | Yellow | 1424 |
| | | Mountain whitefish | 262 | | | | | 0 | Yellow | 1395 |
| | | Mountain whitefish | 306 | | | | | 0 | Yellow | 1394 |
| | | Mountain whitefish | 317 | | | | | 0 | Yellow | 1393 |
| | | Mountain whitefish | 223 | | | | | 0 | | |
| | | Mountain whitefish | 333 | | | | | 0 | Yellow | 1391 |
| | | Mountain whitefish | 305 | | | | | 0 | Yellow | 1390 |
| | | Mountain whitefish | 305 | | | | | 0 | Yellow | 1396 |
| | | Mountain whitefish | 310 | | | | | 0 | Yellow | 1399 |
| | | Mountain whitefish | 358 | | | | | 0 | Yellow | 1400 |
| | | Mountain whitefish | 306 | | | | | 0 | Yellow | 1411 |
| | | Mountain whitefish | 334 | | | | | 0 | Yellow | 1386 |
| | | Mountain whitefish | 425 | 776 | | | | 0 | Yellow | 1377 |
| | | Mountain whitefish | 300 | | | | | 0 | Yellow | 1388 |
| | | Mountain whitefish | 291 | | | | | 0 | | |
| | | Mountain whitefish | 322 | | | | | 0 | Yellow | 1419 |
| | | Mountain whitefish | 301 | | | | | 0 | Yellow | 1380 |
| | | Mountain whitefish | 324 | | | | | 0 | Yellow | 1381 |
| | | Mountain whitefish | 337 | | | | | 0 | Yellow | 1382 |
| | | Mountain whitefish | 306 | | | | | 0 | Yellow | 1383 |
| | | Mountain whitefish | 318 | | | | | 0 | Yellow | 1389 |
| | | Mountain whitefish | 351 | | | | | 0 | Yellow | 1385 |
| | | Mountain whitefish | 300 | | | | | 0 | Yellow | 1402 |
| | | Mountain whitefish | 323 | | | | | 0 | Yellow | 1376 |
| | | Mountain whitefish | 321 | | | | | 0 | Yellow | 1422 |
| | | Mountain whitefish | 308 | | | | | 0 | Yellow | 1412 |
| | | Mountain whitefish | 339 | | | | | 0 | Yellow | 1413 |
| | | Mountain whitefish | 323 | | | | | 0 | Yellow | 1414 |
| | | Mountain whitefish | 325 | | | | | 0 | | |
| | | Mountain whitefish | 259 | | | | | 0 | Yellow | 1426 |
| | | Mountain whitefish | 91 | | | | | 0 | | |
| | | Mountain whitefish | 302 | | | | | 0 | Yellow | 1425 |
| | | Mountain whitefish | 316 | | | | | 0 | Yellow | 1384 |
| | | Mountain whitefish | 308 | | | | | 0 | Yellow | 1406 |
| | | Mountain whitefish | 330 | | | | | 0 | Yellow | 1398 |
| | | Mountain whitefish | 316 | | | | | 0 | Yellow | 1387 |
| | | Mountain whitefish | 312 | | | | | 0 | Yellow | 1401 |
| | | Mountain whitefish | 308 | | | | | 0 | Yellow | 1403 |
| | | Mountain whitefish | 331 | | | | | 0 | Yellow | 1404 |
| | | Mountain whitefish | 304 | | | | | 0 | Yellow | 1378 |
| | | Mountain whitefish | 304 | | | | | 0 | | |
| | | Mountain whitefish | 301 | | | | | 0 | | |
| | | Mountain whitefish | 331 | | | | | 0 | Yellow | 1408 |

Appendix C Table C1. Life history data for fish sampled during Phase I of the Peace River Fish Community Indexing Program, 2001

| Area and Waterbody | Site Label Sample Date and Kilometre | Common Name | Fork Length (mm) | Weight (gm) | Sexual Maturity | Age Structure | Age | Capt. Code | Tag Colour | Tag Number |
|--------------------|--------------------------------------|--------------------|------------------|-------------|-----------------|---------------|-----|------------|------------|------------|
| Zone 4 Peace River | | | | | | | | | | |
| | ES0414 18/08/2001 | 121.0 | | | | | | | | |
| | | Mountain whitefish | 320 | | | | | 0 | Yellow | 1409 |
| | | Mountain whitefish | 307 | | | | | 0 | | |
| | | Mountain whitefish | 324 | | | | | 0 | Yellow | 1375 |
| | | Mountain whitefish | 335 | | | | | 0 | Yellow | 1405 |
| | | Mountain whitefish | 369 | | | | | 0 | | |
| | | Mountain whitefish | 313 | | | | | 0 | Yellow | 1410 |
| | | Mountain whitefish | 371 | | | | | 0 | Yellow | 1374 |
| | | Mountain whitefish | 232 | | | | | 0 | | |
| | | Mountain whitefish | 211 | | | | | 0 | | |
| | | Mountain whitefish | 253 | | | | | 0 | Yellow | 1373 |
| | | Mountain whitefish | 285 | | | | | 0 | Yellow | 1379 |
| | | Mountain whitefish | 317 | | | | | 0 | Yellow | 1397 |
| | | Rainbow trout | 352 | 490 | | | | 0 | Yellow | 1427 |
| | | Rainbow trout | 404 | 608 | | | | 0 | Yellow | 1421 |
| | | Rainbow trout | 322 | 322 | | | | 0 | Yellow | 1416 |
| | | Rainbow trout | 342 | 440 | | | | 0 | Yellow | 1415 |
| | | Rainbow trout | 402 | 648 | | | | 0 | Yellow | 1420 |
| | | Rainbow trout | 398 | 654 | | | | 0 | Yellow | 1417 |

APPENDIX D
FISH CATCH RATES

Appendix D TableD1. Boat electrofisher sampling effort, catch, and catch-per-unit-effort during Phase I of the Peace River Fish Community Indexing Program, 2001.

| Area | Site Label | Habitat Type | Date | Time | Effort (m) | Effort (s) | Species | No. Recorded | CPUE (Fish/km) |
|--------|------------|--------------|------------|-------------|------------|------------|---------------------|--------------|----------------|
| Zone 1 | | | | | | | | | |
| | ES0101 | SFC | | | | | | | |
| | | | 26/08/2001 | 10:15:00 AM | 1300 | 627 | Bull trout | 1 | 0.77 |
| | | | | | | | Largescale sucker | 1 | 0.77 |
| | | | | | | | Longnose sucker | 5 | 3.85 |
| | | | | | | | Mountain whitefish | 9 | 6.92 |
| | | | 21/10/2001 | 11:30:00 AM | 1500 | 526 | Arctic grayling | 1 | 0.67 |
| | | | | | | | Longnose sucker | 2 | 1.33 |
| | | | | | | | Mountain whitefish | 7 | 4.67 |
| | | | | | | | Rainbow trout | 1 | 0.67 |
| | ES0102 | SLC | | | | | | | |
| | | | 26/08/2001 | 11:00:00 AM | 2100 | 1602 | Goldeye | 1 | 0.48 |
| | | | | | | | Largescale sucker | 2 | 0.95 |
| | | | | | | | Longnose sucker | 2 | 0.95 |
| | | | | | | | Mountain whitefish | 5 | 2.38 |
| | | | 21/10/2001 | 12:00:00 PM | 1800 | 959 | Largescale sucker | 1 | 0.56 |
| | | | | | | | Longnose sucker | 9 | 5.00 |
| | | | | | | | Mountain whitefish | 3 | 1.67 |
| | | | | | | | Northern pike | 1 | 0.56 |
| | | | | | | | Walleye | 1 | 0.56 |
| | ES0103 | SLN | | | | | | | |
| | | | 26/08/2001 | 11:45:00 AM | 1900 | 921 | Largescale sucker | 4 | 2.11 |
| | | | | | | | Longnose sucker | 1 | 0.53 |
| | | | 21/10/2001 | 12:30:00 PM | 1500 | 855 | Bull trout | 1 | 0.67 |
| | | | | | | | Largescale sucker | 1 | 0.67 |
| | | | | | | | Longnose sucker | 11 | 7.33 |
| | | | | | | | Mountain whitefish | 7 | 4.67 |
| | | | | | | | Trout-perch | 1 | 0.67 |
| | | | | | | | Walleye | 11 | 7.33 |
| | ES0104 | SLN | | | | | | | |
| | | | 26/08/2001 | 12:30:00 PM | 400 | 880 | Burbot | 1 | 2.50 |
| | | | | | | | Goldeye | 4 | 10.00 |
| | | | | | | | Largescale sucker | 24 | 60.00 |
| | | | | | | | Longnose sucker | 1 | 2.50 |
| | | | | | | | Northern pikeminnow | 1 | 2.50 |
| | | | | | | | Walleye | 8 | 20.00 |
| | | | 21/10/2001 | 1:00:00 PM | 400 | 1080 | Walleye | 1 | 2.50 |

Appendix D TableD1. Boat electrofisher sampling effort, catch, and catch-per-unit-effort during Phase I of the Peace River Fish Community Indexing Program, 2001.

| Area | Site Label | Habitat Type | Date | Time | Effort (m) | Effort (s) | Species | No. Recorded | CPUE (Fish/km) |
|--------|------------|--------------|------------|------------|------------|------------|---------------------|--------------|----------------|
| Zone 1 | | | | | | | | | |
| | ES0105 | CON | | | | | | | |
| | | | 26/08/2001 | 1:30:00 PM | 700 | 471 | Burbot | 1 | 1.43 |
| | | | | | | | Largescale sucker | 18 | 25.71 |
| | | | | | | | Longnose sucker | 1 | 1.43 |
| | | | | | | | Walleye | 1 | 1.43 |
| | | | 21/10/2001 | 2:30:00 PM | 700 | 726 | Arctic grayling | 1 | 1.43 |
| | | | | | | | Longnose sucker | 3 | 4.29 |
| | | | | | | | Mountain whitefish | 1 | 1.43 |
| | | | | | | | Walleye | 2 | 2.86 |
| | ES0106 | SFC | | | | | | | |
| | | | 26/08/2001 | 2:30:00 PM | 200 | 1182 | Burbot | 1 | 5.00 |
| | | | | | | | Goldeye | 1 | 5.00 |
| | | | | | | | Largescale sucker | 3 | 15.00 |
| | | | | | | | Longnose sucker | 2 | 10.00 |
| | | | | | | | Mountain whitefish | 6 | 30.00 |
| | | | | | | | Northern pikeminnow | 1 | 5.00 |
| | | | | | | | Walleye | 1 | 5.00 |
| | | | 21/10/2001 | 3:00:00 PM | 1300 | 585 | Longnose sucker | 4 | 3.08 |
| | | | | | | | Mountain whitefish | 3 | 2.31 |
| | | | | | | | Northern pike | 1 | 0.77 |
| | ES0107 | SFN | | | | | | | |
| | | | 26/08/2001 | 3:30:00 PM | 2000 | 1403 | Bull trout | 2 | 1.00 |
| | | | | | | | Lake chub | 1 | 0.50 |
| | | | | | | | Largescale sucker | 1 | 0.50 |
| | | | | | | | Longnose sucker | 6 | 3.00 |
| | | | | | | | Mountain whitefish | 4 | 2.00 |
| | | | | | | | Rainbow trout | 1 | 0.50 |
| | | | | | | | Redside shiner | 1 | 0.50 |
| | | | 21/10/2001 | 3:30:00 PM | 600 | 303 | Largescale sucker | 3 | 5.00 |
| | | | | | | | Longnose sucker | 4 | 6.67 |
| | | | | | | | Mountain whitefish | 19 | 31.67 |
| | ES0108 | SLC | | | | | | | |
| | | | 26/08/2001 | 4:15:00 PM | 200 | 1122 | Longnose sucker | 2 | 10.00 |
| | | | | | | | Mountain whitefish | 5 | 25.00 |
| | | | 21/10/2001 | 4:15:00 PM | 2000 | 1267 | Bull trout | 2 | 1.00 |
| | | | | | | | Longnose sucker | 4 | 2.00 |
| | | | | | | | Mountain whitefish | 3 | 1.50 |
| | | | | | | | Walleye | 1 | 0.50 |

Appendix D TableD1. Boat electrofisher sampling effort, catch, and catch-per-unit-effort during Phase I of the Peace River Fish Community Indexing Program, 2001.

| Area | Site Label | Habitat Type | Date | Time | Effort (m) | Effort (s) | Species | No. Recorded | CPUE (Fish/km) |
|--------|------------|--------------|------------|-------------|------------|------------|---------------------|--------------|----------------|
| Zone 1 | | | | | | | | | |
| | ES0109 | SFN | | | | | | | |
| | | | 26/08/2001 | 5:00:00 PM | 2200 | 1398 | Arctic grayling | 2 | 0.91 |
| | | | | | | | Largescale sucker | 2 | 0.91 |
| | | | | | | | Longnose sucker | 8 | 3.64 |
| | | | | | | | Mountain whitefish | 6 | 2.73 |
| | | | | | | | Walleye | 1 | 0.45 |
| | | | 22/10/2001 | 11:30:00 AM | 1200 | 1600 | Arctic grayling | 3 | 2.50 |
| | | | | | | | Bull trout | 3 | 2.50 |
| | | | | | | | Largescale sucker | 3 | 2.50 |
| | | | | | | | Longnose sucker | 4 | 3.33 |
| | | | | | | | Mountain whitefish | 22 | 18.33 |
| | ES0110 | SFN | | | | | | | |
| | | | 26/08/2001 | 5:45:00 PM | 2500 | 1159 | Arctic grayling | 1 | 0.40 |
| | | | | | | | Burbot | 2 | 0.80 |
| | | | | | | | Longnose sucker | 9 | 3.60 |
| | | | | | | | Mountain whitefish | 17 | 6.80 |
| | | | | | | | Northern pikeminnow | 1 | 0.40 |
| | | | 22/10/2001 | 12:00:00 PM | 2000 | 723 | Arctic grayling | 1 | 0.50 |
| | | | | | | | Bull trout | 1 | 0.50 |
| | | | | | | | Longnose dace | 1 | 0.50 |
| | | | | | | | Longnose sucker | 6 | 3.00 |
| | | | | | | | Mountain whitefish | 22 | 11.00 |
| | ES0111 | SFC | | | | | | | |
| | | | 27/08/2001 | 10:30:00 AM | 2000 | 1291 | Goldeye | 1 | 0.50 |
| | | | | | | | Longnose sucker | 2 | 1.00 |
| | | | | | | | Mountain whitefish | 8 | 4.00 |
| | | | 22/10/2001 | 1:30:00 PM | 1400 | 1001 | Longnose sucker | 1 | 0.71 |
| | | | | | | | Rainbow trout | 1 | 0.71 |
| | ES0112 | CON | | | | | | | |
| | | | 27/08/2001 | 11:15:00 AM | 500 | 350 | Bull trout | 1 | 2.00 |
| | | | | | | | Largescale sucker | 9 | 18.00 |
| | | | | | | | Longnose sucker | 1 | 2.00 |
| | | | | | | | Mountain whitefish | 2 | 4.00 |
| | | | | | | | Northern pikeminnow | 1 | 2.00 |
| | | | 22/10/2001 | 2:00:00 PM | 500 | 461 | Bull trout | 2 | 4.00 |
| | | | | | | | Longnose sucker | 2 | 4.00 |
| | | | | | | | Mountain whitefish | 10 | 20.00 |

Appendix D TableD1. Boat electrofisher sampling effort, catch, and catch-per-unit-effort during Phase I of the Peace River Fish Community Indexing Program, 2001.

| Area | Site Label | Habitat Type | Date | Time | Effort (m) | Effort (s) | Species | No. Recorded | CPUE (Fish/km) |
|--------|------------|--------------|------------|-------------|------------|------------|--------------------|--------------|----------------|
| Zone 1 | | | | | | | | | |
| | ES0113 | SFN | | | | | | | |
| | | | 27/08/2001 | 11:45:00 AM | 2000 | 1329 | Burbot | 1 | 0.50 |
| | | | | | | | Longnose sucker | 1 | 0.50 |
| | | | | | | | Mountain whitefish | 7 | 3.50 |
| | | | | | | | Northern pike | 1 | 0.50 |
| | | | | | | | Walleye | 3 | 1.50 |
| | | | 22/10/2001 | 2:30:00 PM | 2000 | 1076 | Arctic grayling | 1 | 0.50 |
| | | | | | | | Largescale sucker | 1 | 0.50 |
| | | | | | | | Longnose sucker | 1 | 0.50 |
| | | | | | | | Mountain whitefish | 16 | 8.00 |
| | | | | | | | Rainbow trout | 2 | 1.00 |
| | | | | | | | Trout-perch | 1 | 0.50 |
| | ES0114 | SFC | | | | | | | |
| | | | 27/08/2001 | 1:30:00 PM | 2000 | 1638 | Goldeye | 2 | 1.00 |
| | | | | | | | Largescale sucker | 1 | 0.50 |
| | | | | | | | Longnose sucker | 3 | 1.50 |
| | | | | | | | Mountain whitefish | 10 | 5.00 |
| | | | | | | | Redside shiner | 2 | 1.00 |
| | | | 22/10/2001 | 3:30:00 PM | 1800 | 1122 | Bull trout | 1 | 0.56 |
| | | | | | | | Longnose sucker | 1 | 0.56 |
| | | | | | | | Mountain whitefish | 8 | 4.44 |
| | | | | | | | Northern pike | 1 | 0.56 |
| | | | | | | | Rainbow trout | 1 | 0.56 |
| Zone 2 | | | | | | | | | |
| | ES0201 | SLN | | | | | | | |
| | | | 23/08/2001 | 11:30:00 AM | 800 | 527 | Longnose sucker | 1 | 1.25 |
| | | | | | | | Mountain whitefish | 2 | 2.50 |
| | | | 18/10/2001 | 11:45:00 AM | 800 | 725 | Lake whitefish | 2 | 2.50 |
| | | | | | | | Largescale sucker | 5 | 6.25 |
| | | | | | | | Longnose sucker | 8 | 10.00 |
| | | | | | | | Mountain whitefish | 5 | 6.25 |
| | | | | | | | Northern pike | 4 | 5.00 |
| | | | | | | | Rainbow trout | 1 | 1.25 |
| | | | | | | | Walleye | 5 | 6.25 |

Appendix D TableD1. Boat electrofisher sampling effort, catch, and catch-per-unit-effort during Phase I of the Peace River Fish Community Indexing Program, 2001.

| Area | Site Label | Habitat Type | Date | Time | Effort (m) | Effort (s) | Species | No. Recorded | CPUE (Fish/km) |
|--------|------------|--------------|------------|-------------|------------|------------|---------------------|--------------|----------------|
| Zone 2 | | | | | | | | | |
| | ES0202 | SLN | | | | | | | |
| | | | 23/08/2001 | 12:15:00 PM | 2000 | 1318 | Arctic grayling | 2 | 1.00 |
| | | | | | | | Bull trout | 1 | 0.50 |
| | | | | | | | Largescale sucker | 3 | 1.50 |
| | | | | | | | Longnose sucker | 4 | 2.00 |
| | | | | | | | Mountain whitefish | 13 | 6.50 |
| | | | 18/10/2001 | 2:00:00 PM | 1800 | 841 | Arctic grayling | 4 | 2.22 |
| | | | | | | | Longnose sucker | 8 | 4.44 |
| | | | | | | | Mountain whitefish | 9 | 5.00 |
| | | | | | | | Trout-perch | 1 | 0.56 |
| | ES0203 | CON | | | | | | | |
| | | | 23/08/2001 | 1:30:00 PM | 500 | 863 | Largescale sucker | 2 | 4.00 |
| | | | | | | | Mountain whitefish | 1 | 2.00 |
| | | | | | | | Northern pike | 1 | 2.00 |
| | | | | | | | Northern pikeminnow | 1 | 2.00 |
| | | | | | | | Redside shiner | 1 | 2.00 |
| | | | 18/10/2001 | 2:40:00 PM | 500 | 621 | Arctic grayling | 1 | 2.00 |
| | | | | | | | Bull trout | 1 | 2.00 |
| | | | | | | | Longnose sucker | 2 | 4.00 |
| | | | | | | | Mountain whitefish | 15 | 30.00 |
| | ES0204 | SFC | | | | | | | |
| | | | 23/08/2001 | 2:45:00 PM | 2000 | 1158 | Arctic grayling | 4 | 2.00 |
| | | | | | | | Bull trout | 2 | 1.00 |
| | | | | | | | Largescale sucker | 2 | 1.00 |
| | | | | | | | Longnose sucker | 12 | 6.00 |
| | | | | | | | Mountain whitefish | 41 | 20.50 |
| | | | | | | | Redside shiner | 2 | 1.00 |
| | | | 18/10/2001 | 3:15:00 PM | 1000 | 591 | Arctic grayling | 7 | 7.00 |
| | | | | | | | Lake whitefish | 1 | 1.00 |
| | | | | | | | Mountain whitefish | 42 | 42.00 |
| | | | | | | | Redside shiner | 1 | 1.00 |

Appendix D TableD1. Boat electrofisher sampling effort, catch, and catch-per-unit-effort during Phase I of the Peace River Fish Community Indexing Program, 2001.

| Area | Site Label | Habitat Type | Date | Time | Effort (m) | Effort (s) | Species | No. Recorded | CPUE (Fish/km) |
|--------|------------|--------------|------------|-------------|------------|------------|--------------------|--------------|----------------|
| Zone 2 | | | | | | | | | |
| | ES0205 | SLN | | | | | | | |
| | | | 23/08/2001 | 3:30:00 PM | 1500 | 805 | Arctic grayling | 3 | 2.00 |
| | | | | | | | Largescale sucker | 1 | 0.67 |
| | | | | | | | Longnose sucker | 3 | 2.00 |
| | | | | | | | Mountain whitefish | 2 | 1.33 |
| | | | 18/10/2001 | 4:00:00 PM | 1300 | 830 | Arctic grayling | 5 | 3.85 |
| | | | | | | | Largescale sucker | 1 | 0.77 |
| | | | | | | | Longnose sucker | 13 | 10.00 |
| | | | | | | | Mountain whitefish | 1 | 0.77 |
| | ES0206 | SFN | | | | | | | |
| | | | 23/08/2001 | 4:30:00 PM | 900 | 845 | Bull trout | 2 | 2.22 |
| | | | | | | | Largescale sucker | 1 | 1.11 |
| | | | | | | | Longnose dace | 1 | 1.11 |
| | | | | | | | Longnose sucker | 1 | 1.11 |
| | | | | | | | Mountain whitefish | 32 | 35.56 |
| | | | | | | | Northern pike | 1 | 1.11 |
| | | | 18/10/2001 | 4:30:00 PM | 500 | 334 | Longnose sucker | 1 | 2.00 |
| | | | | | | | Mountain whitefish | 30 | 60.00 |
| | ES0207 | BAC | | | | | | | |
| | | | 23/08/2001 | 5:15:00 PM | 1400 | 1637 | Largescale sucker | 2 | 1.43 |
| | | | | | | | Northern pike | 4 | 2.86 |
| | | | | | | | Redside shiner | 1 | 0.71 |
| | | | | | | | Yellow perch | 4 | 2.86 |
| | | | 19/10/2001 | 11:30:00 AM | 1400 | 1375 | Lake whitefish | 1 | 0.71 |
| | | | | | | | Largescale sucker | 6 | 4.29 |
| | | | | | | | Northern pike | 4 | 2.86 |
| | | | | | | | White sucker | 4 | 2.86 |
| | ES0208 | SLC | | | | | | | |
| | | | 24/08/2001 | 10:15:00 AM | 800 | 627 | Arctic grayling | 6 | 7.50 |
| | | | | | | | Largescale sucker | 3 | 3.75 |
| | | | | | | | Longnose sucker | 8 | 10.00 |
| | | | | | | | Mountain whitefish | 9 | 11.25 |
| | | | 19/10/2001 | 12:15:00 PM | 800 | 506 | Arctic grayling | 1 | 1.25 |
| | | | | | | | Bull trout | 1 | 1.25 |
| | | | | | | | Largescale sucker | 1 | 1.25 |
| | | | | | | | Longnose sucker | 3 | 3.75 |
| | | | | | | | Mountain whitefish | 5 | 6.25 |

Appendix D TableD1. Boat electrofisher sampling effort, catch, and catch-per-unit-effort during Phase I of the Peace River Fish Community Indexing Program, 2001.

| Area | Site Label | Habitat Type | Date | Time | Effort (m) | Effort (s) | Species | No. Recorded | CPUE (Fish/km) |
|--------|------------|--------------|------------|-------------|------------|------------|---------------------|--------------|----------------|
| Zone 2 | | | | | | | | | |
| | ES0209 | SLN | | | | | | | |
| | | | 24/08/2001 | 11:15:00 AM | 1400 | 1184 | Arctic grayling | 1 | 0.71 |
| | | | | | | | Longnose sucker | 7 | 5.00 |
| | | | | | | | Mountain whitefish | 2 | 1.43 |
| | | | 19/10/2001 | 2:15:00 PM | 600 | 915 | Arctic grayling | 1 | 1.67 |
| | | | | | | | Bull trout | 1 | 1.67 |
| | | | | | | | Longnose sucker | 4 | 6.67 |
| | | | | | | | Mountain whitefish | 4 | 6.67 |
| | | | | | | | Rainbow trout | 2 | 3.33 |
| | ES0210 | SFN | | | | | | | |
| | | | 24/08/2001 | 12:00:00 PM | 2200 | 1286 | Bull trout | 1 | 0.45 |
| | | | | | | | Lake whitefish | 1 | 0.45 |
| | | | | | | | Largescale sucker | 5 | 2.27 |
| | | | | | | | Longnose sucker | 8 | 3.64 |
| | | | | | | | Mountain whitefish | 21 | 9.55 |
| | | | | | | | Northern pike | 4 | 1.82 |
| | | | 19/10/2001 | 3:00:00 PM | 1000 | 385 | Arctic grayling | 1 | 1.00 |
| | | | | | | | Bull trout | 1 | 1.00 |
| | | | | | | | Kokanee | 1 | 1.00 |
| | | | | | | | Largescale sucker | 1 | 1.00 |
| | | | | | | | Longnose sucker | 6 | 6.00 |
| | | | | | | | Mountain whitefish | 5 | 5.00 |
| | ES0211 | BAC | | | | | | | |
| | | | 24/08/2001 | 1:30:00 PM | 700 | 1683 | Northern pike | 3 | 4.29 |
| | | | | | | | Walleye | 1 | 1.43 |
| | | | | | | | White sucker | 2 | 2.86 |
| | | | 19/10/2001 | 3:30:00 PM | 700 | 1033 | Largescale sucker | 2 | 2.86 |
| | | | | | | | Longnose sucker | 1 | 1.43 |
| | | | | | | | Northern pike | 2 | 2.86 |
| | ES0212 | SFC | | | | | | | |
| | | | 24/08/2001 | 2:00:00 PM | 1600 | 858 | None | 0 | 0.00 |
| | | | 19/10/2001 | 4:00:00 PM | 1400 | 631 | Largescale sucker | 5 | 3.57 |
| | | | | | | | Longnose sucker | 4 | 2.86 |
| | | | | | | | Mountain whitefish | 1 | 0.71 |
| | | | | | | | Northern pike | 2 | 1.43 |
| | | | | | | | Northern pikeminnow | 1 | 0.71 |

Appendix D TableD1. Boat electrofisher sampling effort, catch, and catch-per-unit-effort during Phase I of the Peace River Fish Community Indexing Program, 2001.

| Area | Site Label | Habitat Type | Date | Time | Effort (m) | Effort (s) | Species | No. Recorded | CPUE (Fish/km) |
|--------|------------|--------------|------------|-------------|------------|------------|--------------------|--------------|----------------|
| Zone 2 | | | | | | | | | |
| | ES0213 | SLC | | | | | | | |
| | | | 24/08/2001 | 2:30:00 PM | 1000 | 856 | Longnose sucker | 6 | 6.00 |
| | | | | | | | Mountain whitefish | 13 | 13.00 |
| | | | 19/10/2001 | 4:30:00 PM | 800 | 519 | Arctic grayling | 1 | 1.25 |
| | | | | | | | Bull trout | 1 | 1.25 |
| | | | | | | | Longnose sucker | 6 | 7.50 |
| | | | | | | | Mountain whitefish | 3 | 3.75 |
| | ES0214 | SLN | | | | | | | |
| | | | 24/08/2001 | 3:15:00 PM | 2000 | 1007 | Largescale sucker | 6 | 3.00 |
| | | | | | | | Longnose sucker | 7 | 3.50 |
| | | | | | | | Mountain whitefish | 8 | 4.00 |
| | | | | | | | Northern pike | 1 | 0.50 |
| | | | 19/10/2001 | 4:45:00 PM | 1200 | 630 | Arctic grayling | 2 | 1.67 |
| | | | | | | | Largescale sucker | 5 | 4.17 |
| | | | | | | | Longnose sucker | 15 | 12.50 |
| | | | | | | | Mountain whitefish | 3 | 2.50 |
| | | | | | | | White sucker | 1 | 0.83 |
| | ES0215 | CON | | | | | | | |
| | | | 24/08/2001 | 4:00:00 PM | 1000 | 647 | None | 0 | 0.00 |
| | | | 19/10/2001 | 5:00:00 PM | 500 | 659 | Mountain whitefish | 4 | 8.00 |
| | ES0216 | SFC | | | | | | | |
| | | | 23/08/2001 | 11:40:00 AM | 1200 | 529 | Arctic grayling | 1 | 0.83 |
| | | | | | | | Mountain whitefish | 24 | 20.00 |
| | | | 18/10/2001 | 12:30:00 PM | 1200 | 767 | Arctic grayling | 17 | 14.17 |
| | | | | | | | Bull trout | 2 | 1.67 |
| | | | | | | | Longnose sucker | 8 | 6.67 |
| | | | | | | | Mountain whitefish | 17 | 14.17 |

Appendix D TableD1. Boat electrofisher sampling effort, catch, and catch-per-unit-effort during Phase I of the Peace River Fish Community Indexing Program, 2001.

| Area | Site Label | Habitat Type | Date | Time | Effort (m) | Effort (s) | Species | No. Recorded | CPUE (Fish/km) |
|--------|------------|--------------|------------|-------------|------------|------------|---------------------|--------------|----------------|
| Zone 2 | | | | | | | | | |
| | ES0217 | SFN | | | | | | | |
| | | | 24/08/2001 | 10:00:00 AM | 1000 | 627 | Longnose sucker | 3 | 3.00 |
| | | | | | | | Mountain whitefish | 5 | 5.00 |
| | | | | | | | Redside shiner | 1 | 1.00 |
| | | | 19/10/2001 | 1:00:00 PM | 1000 | 395 | Arctic grayling | 3 | 3.00 |
| | | | | | | | Bull trout | 1 | 1.00 |
| | | | | | | | Kokanee | 1 | 1.00 |
| | | | | | | | Largescale sucker | 2 | 2.00 |
| | | | | | | | Longnose sucker | 1 | 1.00 |
| | | | | | | | Mountain whitefish | 36 | 36.00 |
| | | | | | | | Redside shiner | 1 | 1.00 |
| Zone 3 | | | | | | | | | |
| | ES0301 | SFC | | | | | | | |
| | | | 20/08/2001 | 1:00:00 PM | 2000 | 1440 | Arctic grayling | 9 | 4.50 |
| | | | | | | | Bull trout | 1 | 0.50 |
| | | | | | | | Mountain whitefish | 17 | 8.50 |
| | | | | | | | Rainbow trout | 1 | 0.50 |
| | | | 15/10/2001 | 2:30:00 PM | 900 | 492 | Arctic grayling | 3 | 3.33 |
| | | | | | | | Bull trout | 2 | 2.22 |
| | | | | | | | Longnose sucker | 1 | 1.11 |
| | | | | | | | Mountain whitefish | 25 | 27.78 |
| | | | | | | | Rainbow trout | 2 | 2.22 |
| | ES0302 | SFN | | | | | | | |
| | | | 20/08/2001 | 2:00:00 PM | 2000 | 940 | Bull trout | 1 | 0.50 |
| | | | | | | | Largescale sucker | 9 | 4.50 |
| | | | | | | | Longnose sucker | 18 | 9.00 |
| | | | | | | | Mountain whitefish | 21 | 10.50 |
| | | | | | | | Northern pikeminnow | 1 | 0.50 |
| | | | 15/10/2001 | 3:15:00 PM | 400 | 250 | Mountain whitefish | 43 | 107.50 |

Appendix D TableD1. Boat electrofisher sampling effort, catch, and catch-per-unit-effort during Phase I of the Peace River Fish Community Indexing Program, 2001.

| Area | Site Label | Habitat Type | Date | Time | Effort (m) | Effort (s) | Species | No. Recorded | CPUE (Fish/km) |
|--------|------------|--------------|------------|-------------|------------|------------|--------------------|--------------|----------------|
| Zone 3 | | | | | | | | | |
| | ES0303 | SFC | | | | | | | |
| | | | 20/08/2001 | 3:00:00 PM | 2000 | 1874 | Arctic grayling | 8 | 4.00 |
| | | | | | | | Brook Trout | 1 | 0.50 |
| | | | | | | | Mountain whitefish | 13 | 6.50 |
| | | | | | | | Prickly sculpin | 1 | 0.50 |
| | | | | | | | Rainbow trout | 3 | 1.50 |
| | | | 15/10/2001 | 4:15:00 PM | 1300 | 872 | Arctic grayling | 4 | 3.08 |
| | | | | | | | Bull trout | 1 | 0.77 |
| | | | | | | | Largescale sucker | 3 | 2.31 |
| | | | | | | | Longnose sucker | 8 | 6.15 |
| | | | | | | | Mountain whitefish | 23 | 17.69 |
| | | | | | | | Rainbow trout | 3 | 2.31 |
| | ES0304 | SFC | | | | | | | |
| | | | 20/08/2001 | 4:00:00 PM | 1000 | 951 | Arctic grayling | 6 | 6.00 |
| | | | | | | | Longnose sucker | 1 | 1.00 |
| | | | | | | | Mountain whitefish | 22 | 22.00 |
| | | | | | | | Rainbow trout | 1 | 1.00 |
| | | | 16/10/2001 | 11:30:00 AM | 1400 | 788 | Arctic grayling | 5 | 3.57 |
| | | | | | | | Bull trout | 1 | 0.71 |
| | | | | | | | Longnose sucker | 8 | 5.71 |
| | | | | | | | Mountain whitefish | 33 | 23.57 |
| | | | | | | | Rainbow trout | 4 | 2.86 |
| | ES0305 | SFN | | | | | | | |
| | | | 20/08/2001 | 5:00:00 PM | 2000 | 1177 | Bull trout | 1 | 0.50 |
| | | | | | | | Kokanee | 1 | 0.50 |
| | | | | | | | Largescale sucker | 4 | 2.00 |
| | | | | | | | Longnose sucker | 4 | 2.00 |
| | | | | | | | Mountain whitefish | 30 | 15.00 |
| | | | 16/10/2001 | 12:00:00 PM | 300 | 496 | Bull trout | 1 | 3.33 |
| | | | | | | | Largescale sucker | 1 | 3.33 |
| | | | | | | | Longnose sucker | 4 | 13.33 |
| | | | | | | | Mountain whitefish | 14 | 46.67 |
| | | | | | | | Rainbow trout | 1 | 3.33 |

Appendix D TableD1. Boat electrofisher sampling effort, catch, and catch-per-unit-effort during Phase I of the Peace River Fish Community Indexing Program, 2001.

| Area | Site Label | Habitat Type | Date | Time | Effort (m) | Effort (s) | Species | No. Recorded | CPUE (Fish/km) |
|--------|------------|--------------|------------|-------------|------------|------------|---------------------|--------------|----------------|
| Zone 3 | | | | | | | | | |
| | ES0306 | SFC | | | | | | | |
| | | | 21/08/2001 | 10:30:00 AM | 2000 | 1790 | Arctic grayling | 3 | 1.50 |
| | | | | | | | Mountain whitefish | 32 | 16.00 |
| | | | 15/10/2001 | 10:30:00 AM | 1000 | 568 | Arctic grayling | 5 | 5.00 |
| | | | | | | | Bull trout | 1 | 1.00 |
| | | | | | | | Largescale sucker | 11 | 11.00 |
| | | | | | | | Longnose sucker | 12 | 12.00 |
| | | | | | | | Mountain whitefish | 15 | 15.00 |
| | | | | | | | Northern pikeminnow | 1 | 1.00 |
| | | | | | | | Rainbow trout | 6 | 6.00 |
| | ES0307 | SFN | | | | | | | |
| | | | 21/08/2001 | 11:45:00 AM | 1500 | 927 | Largescale sucker | 1 | 0.67 |
| | | | | | | | Longnose sucker | 4 | 2.67 |
| | | | | | | | Mountain whitefish | 69 | 46.00 |
| | | | | | | | Rainbow trout | 1 | 0.67 |
| | | | 15/10/2001 | 11:30:00 AM | 1000 | 686 | Bull trout | 1 | 1.00 |
| | | | | | | | Largescale sucker | 2 | 2.00 |
| | | | | | | | Mountain whitefish | 25 | 25.00 |
| | | | | | | | Northern pike | 1 | 1.00 |
| | ES0308 | BAC | | | | | | | |
| | | | 21/08/2001 | 1:00:00 PM | 600 | 694 | Longnose sucker | 1 | 1.67 |
| | | | | | | | Redside shiner | 3 | 5.00 |
| | | | 15/10/2001 | 12:30:00 PM | 600 | 639 | Longnose sucker | 2 | 3.33 |
| | | | | | | | Mountain whitefish | 7 | 11.67 |
| | ES0309 | SFN | | | | | | | |
| | | | 21/08/2001 | 2:15:00 PM | 1000 | 569 | Burbot | 1 | 1.00 |
| | | | | | | | Largescale sucker | 9 | 9.00 |
| | | | | | | | Longnose sucker | 13 | 13.00 |
| | | | | | | | Mountain whitefish | 4 | 4.00 |
| | | | 15/10/2001 | 1:00:00 PM | 800 | 463 | Mountain whitefish | 43 | 53.75 |
| | ES0310 | SFN | | | | | | | |
| | | | 21/08/2001 | 3:00:00 PM | 2000 | 854 | Bull trout | 1 | 0.50 |
| | | | | | | | Longnose sucker | 13 | 6.50 |
| | | | | | | | Mountain whitefish | 22 | 11.00 |
| | | | 15/10/2001 | 1:45:00 PM | 200 | 171 | Mountain whitefish | 35 | 175.00 |

Appendix D TableD1. Boat electrofisher sampling effort, catch, and catch-per-unit-effort during Phase I of the Peace River Fish Community Indexing Program, 2001.

| Area | Site Label | Habitat Type | Date | Time | Effort (m) | Effort (s) | Species | No. Recorded | CPUE (Fish/km) |
|--------|------------|--------------|------------|-------------|------------|------------|--------------------|--------------|----------------|
| Zone 3 | | | | | | | | | |
| | ES0311 | SLC | | | | | | | |
| | | | 21/08/2001 | 4:15:00 PM | 1500 | 854 | Bull trout | 2 | 1.33 |
| | | | | | | | Longnose sucker | 1 | 0.67 |
| | | | | | | | Mountain whitefish | 40 | 26.67 |
| | | | 16/10/2001 | 1:30:00 PM | 1300 | 655 | Bull trout | 3 | 2.31 |
| | | | | | | | Largescale sucker | 1 | 0.77 |
| | | | | | | | Longnose sucker | 2 | 1.54 |
| | | | | | | | Mountain whitefish | 16 | 12.31 |
| | | | | | | | Rainbow trout | 1 | 0.77 |
| | ES0312 | SFC | | | | | | | |
| | | | 21/08/2001 | 5:00:00 PM | 2000 | 1397 | Arctic grayling | 5 | 2.50 |
| | | | | | | | Bull trout | 4 | 2.00 |
| | | | | | | | Largescale sucker | 1 | 0.50 |
| | | | | | | | Longnose sucker | 11 | 5.50 |
| | | | | | | | Mountain whitefish | 69 | 34.50 |
| | | | | | | | Northern pike | 1 | 0.50 |
| | | | | | | | Rainbow trout | 1 | 0.50 |
| | | | 16/10/2001 | 2:30:00 PM | 1500 | 747 | Arctic grayling | 3 | 2.00 |
| | | | | | | | Bull trout | 5 | 3.33 |
| | | | | | | | Largescale sucker | 1 | 0.67 |
| | | | | | | | Longnose sucker | 11 | 7.33 |
| | | | | | | | Mountain whitefish | 38 | 25.33 |
| | ES0313 | CON | | | | | | | |
| | | | 21/08/2001 | 2:00:00 PM | 300 | 532 | Largescale sucker | 1 | 3.33 |
| | | | | | | | Longnose sucker | 2 | 6.67 |
| | | | | | | | Mountain whitefish | 7 | 23.33 |
| | | | 16/10/2001 | 1:00:00 PM | 300 | 649 | Longnose sucker | 3 | 10.00 |
| | | | | | | | Mountain whitefish | 2 | 6.67 |
| Zone 4 | | | | | | | | | |
| | ES0401 | SFN | | | | | | | |
| | | | 17/08/2001 | 9:30:00 AM | 800 | 678 | Arctic grayling | 1 | 1.25 |
| | | | | | | | Bull trout | 2 | 2.50 |
| | | | | | | | Mountain whitefish | 140 | 175.00 |
| | | | 12/10/2001 | 11:30:00 AM | 600 | 289 | Mountain whitefish | 64 | 106.67 |

Appendix D TableD1. Boat electrofisher sampling effort, catch, and catch-per-unit-effort during Phase I of the Peace River Fish Community Indexing Program, 2001.

| Area | Site Label | Habitat Type | Date | Time | Effort (m) | Effort (s) | Species | No. Recorded | CPUE (Fish/km) |
|--------|------------|--------------|------------|-------------|------------|------------|--------------------|--------------|----------------|
| Zone 4 | | | | | | | | | |
| | ES0402 | CON | | | | | | | |
| | | | 17/08/2001 | 10:00:00 AM | 200 | 225 | Largescale sucker | 1 | 5.00 |
| | | | | | | | Mountain whitefish | 1 | 5.00 |
| | | | 12/10/2001 | 12:30:00 PM | 200 | 443 | Bull trout | 2 | 10.00 |
| | | | | | | | Kokanee | 1 | 5.00 |
| | | | | | | | Lake whitefish | 2 | 10.00 |
| | | | | | | | Mountain whitefish | 28 | 140.00 |
| | | | | | | | Rainbow trout | 1 | 5.00 |
| | ES0403 | SFC | | | | | | | |
| | | | 17/08/2001 | 10:45:00 AM | 1000 | 725 | Arctic grayling | 1 | 1.00 |
| | | | | | | | Largescale sucker | 1 | 1.00 |
| | | | | | | | Longnose sucker | 1 | 1.00 |
| | | | | | | | Mountain whitefish | 31 | 31.00 |
| | | | | | | | Rainbow trout | 2 | 2.00 |
| | | | 12/10/2001 | 1:30:00 PM | 700 | 406 | Mountain whitefish | 54 | 77.14 |
| | | | | | | | Rainbow trout | 2 | 2.86 |
| | ES0404 | SFN | | | | | | | |
| | | | 17/08/2001 | 12:00:00 PM | 1000 | 482 | Arctic grayling | 3 | 3.00 |
| | | | | | | | Bull trout | 2 | 2.00 |
| | | | | | | | Mountain whitefish | 52 | 52.00 |
| | | | 12/10/2001 | 2:30:00 PM | 700 | 336 | Longnose sucker | 1 | 1.43 |
| | | | | | | | Mountain whitefish | 44 | 62.86 |
| | ES0405 | SFC | | | | | | | |
| | | | 17/08/2001 | 1:00:00 PM | 1000 | 690 | Arctic grayling | 1 | 1.00 |
| | | | | | | | Bull trout | 1 | 1.00 |
| | | | | | | | Largescale sucker | 1 | 1.00 |
| | | | | | | | Mountain whitefish | 52 | 52.00 |
| | | | | | | | Prickly sculpin | 1 | 1.00 |
| | | | 12/10/2001 | 3:30:00 PM | 1400 | 346 | Bull trout | 1 | 0.71 |
| | | | | | | | Longnose sucker | 3 | 2.14 |
| | | | | | | | Mountain whitefish | 63 | 45.00 |

Appendix D TableD1. Boat electrofisher sampling effort, catch, and catch-per-unit-effort during Phase I of the Peace River Fish Community Indexing Program, 2001.

| Area | Site Label | Habitat Type | Date | Time | Effort (m) | Effort (s) | Species | No. Recorded | CPUE (Fish/km) |
|--------|------------|--------------|------------|-------------|------------|------------|---------------------|--------------|----------------|
| Zone 4 | | | | | | | | | |
| | ES0406 | CON | | | | | | | |
| | | | 17/08/2001 | 2:15:00 PM | 200 | 331 | Largescale sucker | 6 | 30.00 |
| | | | | | | | Longnose sucker | 2 | 10.00 |
| | | | | | | | Mountain whitefish | 1 | 5.00 |
| | | | | | | | Northern pikeminnow | 1 | 5.00 |
| | | | 12/10/2001 | 4:30:00 PM | 200 | 362 | Lake whitefish | 1 | 5.00 |
| | | | | | | | Largescale sucker | 1 | 5.00 |
| | | | | | | | Mountain whitefish | 5 | 25.00 |
| | ES0407 | SFC | | | | | | | |
| | | | 17/08/2001 | 3:15:00 PM | 1000 | 518 | Arctic grayling | 3 | 3.00 |
| | | | | | | | Mountain whitefish | 43 | 43.00 |
| | | | | | | | Rainbow trout | 3 | 3.00 |
| | | | 13/10/2001 | 10:00:00 AM | 900 | 377 | Arctic grayling | 2 | 2.22 |
| | | | | | | | Bull trout | 2 | 2.22 |
| | | | | | | | Largescale sucker | 1 | 1.11 |
| | | | | | | | Longnose sucker | 1 | 1.11 |
| | | | | | | | Mountain whitefish | 57 | 63.33 |
| | | | | | | | Rainbow trout | 8 | 8.89 |
| | ES0408 | SFC | | | | | | | |
| | | | 17/08/2001 | 4:30:00 PM | 1000 | 548 | Arctic grayling | 2 | 2.00 |
| | | | | | | | Mountain whitefish | 53 | 53.00 |
| | | | | | | | Rainbow trout | 7 | 7.00 |
| | | | 13/10/2001 | 11:15:00 AM | 900 | 349 | Bull trout | 3 | 3.33 |
| | | | | | | | Largescale sucker | 2 | 2.22 |
| | | | | | | | Longnose sucker | 4 | 4.44 |
| | | | | | | | Mountain whitefish | 34 | 37.78 |
| | | | | | | | Rainbow trout | 4 | 4.44 |
| | ES0409 | SFN | | | | | | | |
| | | | 18/08/2001 | 12:30:00 PM | 700 | 629 | Bull trout | 2 | 2.86 |
| | | | | | | | Mountain whitefish | 61 | 87.14 |
| | ES0410 | SFN | | | | | | | |
| | | | 18/08/2001 | 1:30:00 PM | 1000 | 824 | Mountain whitefish | 44 | 44.00 |
| | | | 13/10/2001 | 12:30:00 PM | 600 | 489 | Bull trout | 2 | 3.33 |
| | | | | | | | Largescale sucker | 3 | 5.00 |
| | | | | | | | Longnose sucker | 1 | 1.67 |
| | | | | | | | Mountain whitefish | 73 | 121.67 |
| | | | | | | | Northern pikeminnow | 2 | 3.33 |

Appendix D TableD1. Boat electrofisher sampling effort, catch, and catch-per-unit-effort during Phase I of the Peace River Fish Community Indexing Program, 2001.

| Area | Site Label | Habitat Type | Date | Time | Effort (m) | Effort (s) | Species | No. Recorded | CPUE (Fish/km) |
|--------|------------|--------------|------------|------------|------------|------------|---------------------|--------------|----------------|
| Zone 4 | | | | | | | | | |
| | ES0411 | CON | | | | | | | |
| | | | 18/08/2001 | 2:30:00 PM | 300 | 291 | Largescale sucker | 6 | 20.00 |
| | | | | | | | Longnose sucker | 2 | 6.67 |
| | | | | | | | Redside shiner | 1 | 3.33 |
| | | | 13/10/2001 | 1:30:00 PM | 300 | 417 | Largescale sucker | 1 | 3.33 |
| | | | | | | | Mountain whitefish | 12 | 40.00 |
| | ES0412 | SFC | | | | | | | |
| | | | 18/08/2001 | 3:15:00 PM | 1000 | 745 | Arctic grayling | 1 | 1.00 |
| | | | | | | | Bull trout | 2 | 2.00 |
| | | | | | | | Mountain whitefish | 32 | 32.00 |
| | | | | | | | Rainbow trout | 2 | 2.00 |
| | | | 13/10/2001 | 2:30:00 PM | 1000 | 729 | Arctic grayling | 1 | 1.00 |
| | | | | | | | Bull trout | 1 | 1.00 |
| | | | | | | | Largescale sucker | 3 | 3.00 |
| | | | | | | | Longnose sucker | 1 | 1.00 |
| | | | | | | | Mountain whitefish | 37 | 37.00 |
| | | | | | | | Northern pike | 1 | 1.00 |
| | | | | | | | Rainbow trout | 4 | 4.00 |
| | ES0413 | SFC | | | | | | | |
| | | | 18/08/2001 | 4:30:00 PM | 1000 | 1049 | Arctic grayling | 4 | 4.00 |
| | | | | | | | Bull trout | 3 | 3.00 |
| | | | | | | | Mountain whitefish | 25 | 25.00 |
| | | | 13/10/2001 | 3:30:00 PM | 1000 | 600 | Bull trout | 3 | 3.00 |
| | | | | | | | Kokanee | 1 | 1.00 |
| | | | | | | | Largescale sucker | 5 | 5.00 |
| | | | | | | | Longnose sucker | 6 | 6.00 |
| | | | | | | | Mountain whitefish | 35 | 35.00 |
| | | | | | | | Northern pikeminnow | 1 | 1.00 |
| | | | | | | | Rainbow trout | 5 | 5.00 |

Appendix D TableD1. Boat electrofisher sampling effort, catch, and catch-per-unit-effort during Phase I of the Peace River Fish Community Indexing Program, 2001.

| Area | Site Label | Habitat Type | Date | Time | Effort (m) | Effort (s) | Species | No. Recorded | CPUE (Fish/km) |
|--------|------------|--------------|------------|------------|------------|------------|--------------------|--------------|----------------|
| Zone 4 | | | | | | | | | |
| | ES0414 | SFC | | | | | | | |
| | | | 18/08/2001 | 5:15:00 PM | 700 | 472 | Arctic grayling | 2 | 2.86 |
| | | | | | | | Longnose sucker | 1 | 1.43 |
| | | | | | | | Mountain whitefish | 29 | 41.43 |
| | | | | | | | Rainbow trout | 2 | 2.86 |
| | | | 13/10/2001 | 4:30:00 PM | 600 | 535 | Bull trout | 3 | 5.00 |
| | | | | | | | Largescale sucker | 1 | 1.67 |
| | | | | | | | Longnose sucker | 2 | 3.33 |
| | | | | | | | Mountain whitefish | 54 | 90.00 |
| | | | | | | | Northern pike | 1 | 1.67 |
| | | | | | | | Rainbow trout | 6 | 10.00 |

Appendix D TableD2. Beach seine sampling effort, catch, and catch-per-unit-effort during Phase I of the Peace River Fish Community Indexing Program, 2001.

| Area | Site Label | Date | Time | Haul | Effort (m ²) | Species | No. Recorded | CPUE (Fish/100m ²) |
|------------------|------------|------------|-------------|------|--------------------------|---------------------|--------------|-----------------------------------|
| Zone 1 | | | | | | | | |
| Peace River | BS0101 | | | | | | | |
| | | 25/08/2001 | 4:30:00 PM | | | | | |
| | | | | 1 | 270.0 | Flathead chub | 7 | 2.59 |
| | | | | | | Lake chub | 1 | 0.37 |
| | | | | | | Sucker spp. | 2 | 0.74 |
| | | 23/10/2001 | 10:55:00 AM | | | | | |
| | | | | 1 | 135.0 | None | 0 | 0.00 |
| | | | | 2 | 157.5 | Lake chub | 10 | 6.35 |
| | | | | | | Redside shiner | 2 | 1.27 |
| | | | | 3 | 180.0 | None | 0 | 0.00 |
| Beaton River | BS0102 | | | | | | | |
| | | 25/08/2001 | 4:45:00 PM | | | | | |
| | | | | 1 | 360.0 | Lake chub | 1 | 0.28 |
| | | | | | | Longnose sucker | 1 | 0.28 |
| | | | | | | Northern pikeminnow | 4 | 1.11 |
| | | | | | | Redside shiner | 1 | 0.28 |
| | | | | | | Spottail shiner | 2 | 0.56 |
| | | | | | | Trout-perch | 1 | 0.28 |
| | | 23/10/2001 | 10:30:00 AM | | | | | |
| | | | | 1 | 157.5 | None | 0 | 0.00 |
| | | | | 2 | 157.5 | Lake chub | 1 | 0.63 |
| | | | | 3 | 135.0 | Northern pikeminnow | 1 | 0.74 |
| Kiskatinaw River | BS0103 | | | | | | | |
| | | 28/08/2001 | 2:00:00 PM | | | | | |
| | | | | 1 | 225.0 | None | 0 | 0.00 |
| | | | | 2 | 225.0 | None | 0 | 0.00 |
| | | 23/10/2001 | 11:30:00 AM | | | | | |
| | | | | 1 | 135.0 | None | 0 | 0.00 |
| | | | | 2 | 135.0 | None | 0 | 0.00 |
| | | | | 3 | 202.5 | None | 0 | 0.00 |

Appendix D TableD2. Beach seine sampling effort, catch, and catch-per-unit-effort during Phase I of the Peace River Fish Community Indexing Program, 2001.

| Area | Site Label | Date | Time | Haul | Effort (m ²) | Species | No. Recorded | CPUE (Fish/100m ²) |
|-------------|------------|------------|-------------|------|--------------------------|---------------------|--------------|-----------------------------------|
| Zone 1 | | | | | | | | |
| Peace River | BS0104 | 28/08/2001 | 2:30:00 PM | 1 | 202.5 | Northern pike | 1 | 0.49 |
| | | | | | | Redside shiner | 2 | 0.99 |
| | | | | | | Spottail shiner | 1 | 0.49 |
| | | | | | | Trout-perch | 1 | 0.49 |
| | | | | 2 | 225.0 | Flathead chub | 5 | 2.22 |
| | | | | | | Lake chub | 1 | 0.44 |
| | | | | | | Redside shiner | 12 | 5.33 |
| | | 23/10/2001 | 12:00:00 PM | 1 | 112.5 | None | 0 | 0.00 |
| | | | | 2 | 135.0 | None | 0 | 0.00 |
| | | | | 3 | 157.5 | None | 0 | 0.00 |
| Peace River | BS0105 | 28/08/2001 | 2:45:00 PM | 1 | 292.5 | None | 0 | 0.00 |
| | | | | 2 | 292.5 | None | 0 | 0.00 |
| Peace River | BS0106 | 28/08/2001 | 3:20:00 PM | 1 | 225.0 | Flathead chub | 1 | 0.44 |
| | | | | | | Northern pikeminnow | 1 | 0.44 |
| | | | | | | Redside shiner | 1 | 0.44 |
| Peace River | BS0107 | 28/08/2001 | 1:45:00 PM | 1 | 225.0 | None | 0 | 0.00 |
| | | | | 2 | 225.0 | None | 0 | 0.00 |
| | | 23/10/2001 | 12:30:00 PM | 1 | 135.0 | None | 0 | 0.00 |
| | | | | 2 | 135.0 | None | 0 | 0.00 |
| | | | | 3 | 135.0 | None | 0 | 0.00 |

Appendix D TableD2. Beach seine sampling effort, catch, and catch-per-unit-effort during Phase I of the Peace River Fish Community Indexing Program, 2001.

| Area | Site Label | Date | Time | Haul | Effort (m ²) | Species | No. Recorded | CPUE (Fish/100m ²) |
|-------------|------------|------------|------------|------|--------------------------|---------------------|--------------|-----------------------------------|
| Zone 1 | | | | | | | | |
| Peace River | BS0108 | 28/08/2001 | 4:00:00 PM | 1 | 225.0 | Longnose sucker | 1 | 0.44 |
| | | | | | | Sucker spp. | 1 | 0.44 |
| | | 23/10/2001 | 1:00:00 PM | 1 | 135.0 | None | 0 | 0.00 |
| | | | | 2 | 135.0 | None | 0 | 0.00 |
| | | | | 3 | 135.0 | None | 0 | 0.00 |
| Peace River | BS0109 | 28/08/2001 | 4:20:00 PM | 1 | 225.0 | Longnose sucker | 9 | 4.00 |
| | | | | | | Northern pikeminnow | 1 | 0.44 |
| | | | | | | Sucker spp. | 144 | 64.00 |
| Peace River | BS0110 | 28/08/2001 | 5:30:00 PM | 1 | 225.0 | Sucker spp. | 1 | 0.44 |
| Zone 2 | | | | | | | | |
| Peace River | BS0201 | 24/08/2001 | 4:30:00 PM | 1 | 225.0 | Redside shiner | 5 | 2.22 |
| | | | | | | Sucker spp. | 3 | 1.33 |
| | | | | 2 | 225.0 | Longnose dace | 1 | 0.44 |
| | | | | | | Redside shiner | 10 | 4.44 |
| | | | | | | Sucker spp. | 15 | 6.67 |

Appendix D TableD2. Beach seine sampling effort, catch, and catch-per-unit-effort during Phase I of the Peace River Fish Community Indexing Program, 2001.

| Area | Site Label | Date | Time | Haul | Effort (m ²) | Species | No. Recorded | CPUE (Fish/100m ²) |
|-------------|------------|------------|-------------|------|--------------------------|-------------------|--------------|-----------------------------------|
| Zone 2 | | | | | | | | |
| Peace River | BS0202 | 24/08/2001 | 5:15:00 PM | 1 | 225.0 | Longnose dace | 3 | 1.33 |
| | | 20/10/2001 | 4:45:00 PM | 1 | 135.0 | Prickly sculpin | 1 | 0.74 |
| | | | | 2 | 135.0 | None | 0 | 0.00 |
| | | | | 3 | 180.0 | None | 0 | 0.00 |
| Peace River | BS0203 | 25/08/2001 | 10:30:00 AM | 1 | 225.0 | None | 0 | 0.00 |
| | | | | 2 | 225.0 | None | 0 | 0.00 |
| | | 20/10/2001 | 10:30:00 AM | 1 | 157.5 | Largescale sucker | 1 | 0.63 |
| | | | | | | Longnose sucker | 4 | 2.54 |
| | | | | 2 | 202.5 | Largescale sucker | 1 | 0.49 |
| | | | | | | Longnose sucker | 1 | 0.49 |
| | | | | 3 | 135.0 | None | 0 | 0.00 |
| Peace River | BS0204 | 25/08/2001 | 11:00:00 AM | 1 | 225.0 | None | 0 | 0.00 |
| Peace River | BS0205 | 25/08/2001 | 11:30:00 AM | 1 | 225.0 | Sucker spp. | 2 | 0.89 |

Appendix D TableD2. Beach seine sampling effort, catch, and catch-per-unit-effort during Phase I of the Peace River Fish Community Indexing Program, 2001.

| Area | Site Label | Date | Time | Haul | Effort (m ²) | Species | No. Recorded | CPUE (Fish/100m ²) |
|-------------|------------|------------|-------------|------|--------------------------|---------------------|--------------|--------------------------------|
| Zone 2 | | | | | | | | |
| Peace River | BS0206 | 25/08/2001 | 12:00:00 PM | 1 | 157.5 | Sucker spp. | 5 | 3.17 |
| | | 20/10/2001 | 12:00:00 PM | 1 | 135.0 | Longnose sucker | 1 | 0.74 |
| | | | | | | Mountain whitefish | 1 | 0.74 |
| | | | | | | Redside shiner | 4 | 2.96 |
| | | | | | | Spottail shiner | 48 | 35.56 |
| | | | | | | Sucker spp. | 10 | 7.41 |
| | | | | 2 | 135.0 | Northern pikeminnow | 1 | 0.74 |
| | | | | | | Prickly sculpin | 1 | 0.74 |
| | | | | | | Redside shiner | 7 | 5.19 |
| | | | | | | Slimy sculpin | 1 | 0.74 |
| | | | | | | Spoonhead sculpin | 1 | 0.74 |
| | | | | | | Spottail shiner | 19 | 14.07 |
| | | | | | | Sucker spp. | 16 | 11.85 |
| | | | | | | Trout-perch | 1 | 0.74 |
| | | | | 3 | 135.0 | Redside shiner | 1 | 0.74 |
| | | | | | | Spottail shiner | 3 | 2.22 |
| | | | | | | Sucker spp. | 3 | 2.22 |

Appendix D TableD2. Beach seine sampling effort, catch, and catch-per-unit-effort during Phase I of the Peace River Fish Community Indexing Program, 2001.

| Area | Site Label | Date | Time | Haul | Effort (m ²) | Species | No. Recorded | CPUE (Fish/100m ²) |
|-------------|------------|------------|------------|------|--------------------------|-------------------|--------------|-----------------------------------|
| Zone 2 | | | | | | | | |
| Peace River | BS0207 | 25/08/2001 | 1:00:00 PM | 1 | 225.0 | Redside shiner | 20 | 8.89 |
| | | | | | | Spoonhead sculpin | 2 | 0.89 |
| | | | | | | Spottail shiner | 202 | 89.78 |
| | | | | | | Sucker spp. | 201 | 89.33 |
| | | 20/10/2001 | 1:30:00 PM | 1 | 135.0 | Redside shiner | 1 | 0.74 |
| | | | | 2 | 135.0 | Spottail shiner | 4 | 2.96 |
| | | | | | | Yellow perch | 1 | 0.74 |
| | | | | 3 | 135.0 | Spottail shiner | 2 | 1.48 |
| | | | | 4 | 135.0 | Longnose sucker | 2 | 1.48 |
| | | | | | | Redside shiner | 1 | 0.74 |
| | | | | | | Spottail shiner | 4 | 2.96 |
| | | | | | | Sucker spp. | 2 | 1.48 |
| | | | | 5 | 135.0 | Largescale sucker | 1 | 0.74 |
| | | | | | | Redside shiner | 1 | 0.74 |
| | | | | | | Spottail shiner | 5 | 3.70 |
| | | | | | | Sucker spp. | 3 | 2.22 |
| | | | | 6 | 135.0 | Redside shiner | 2 | 1.48 |
| | | | | | | Spottail shiner | 2 | 1.48 |
| Peace River | BS0208 | 25/08/2001 | 1:15:00 PM | 1 | 180.0 | None | 0 | 0.00 |

Appendix D TableD2. Beach seine sampling effort, catch, and catch-per-unit-effort during Phase I of the Peace River Fish Community Indexing Program, 2001.

| Area | Site Label | Date | Time | Haul | Effort (m ²) | Species | No. Recorded | CPUE (Fish/100m ²) |
|---------------|------------|------------|-------------|------|--------------------------|-----------------|--------------|-----------------------------------|
| Zone 2 | | | | | | | | |
| Peace River | BS0209 | 25/08/2001 | 2:15:00 PM | 1 | 315.0 | Northern pike | 1 | 0.32 |
| | | | | | | Spottail shiner | 2 | 0.63 |
| | | | | | | Sucker spp. | 112 | 35.56 |
| | | 20/10/2001 | 2:30:00 PM | 1 | 157.5 | Sucker spp. | 4 | 2.54 |
| | | | | 2 | 157.5 | Sucker spp. | 5 | 3.17 |
| | | | | 3 | 135.0 | None | 0 | 0.00 |
| | | | | 4 | 157.5 | None | 0 | 0.00 |
| | | | | 5 | 135.0 | None | 0 | 0.00 |
| | | | | 6 | 157.5 | Sucker spp. | 1 | 0.63 |
| Moberly River | BS0210 | 20/10/2001 | 11:30:00 AM | 1 | 90.0 | None | 0 | 0.00 |
| | | | | 2 | 157.5 | Redside shiner | 3 | 1.90 |
| | | | | 3 | 135.0 | Longnose sucker | 1 | 0.74 |
| | | | | | | Sucker spp. | 1 | 0.74 |
| Zone 3 | | | | | | | | |

Appendix D TableD2. Beach seine sampling effort, catch, and catch-per-unit-effort during Phase I of the Peace River Fish Community Indexing Program, 2001.

| Area | Site Label | Date | Time | Haul | Effort (m ²) | Species | No. Recorded | CPUE (Fish/100m ²) |
|---------------|------------|------------|-------------|------|--------------------------|---------------------|--------------|-----------------------------------|
| Zone 3 | | | | | | | | |
| Halfway River | BS0301 | 22/08/2001 | 11:00:00 AM | 1 | 270.0 | Lake chub | 4 | 1.48 |
| | | | | | | Largescale sucker | 2 | 0.74 |
| | | | | | | Northern pikeminnow | 3 | 1.11 |
| | | | | | | Redside shiner | 127 | 47.04 |
| | | | | | | Spottail shiner | 1 | 0.37 |
| | | 17/10/2001 | 10:00:00 AM | 1 | 135.0 | None | 0 | 0.00 |
| | | | | 2 | 157.5 | None | 0 | 0.00 |
| | | | | 3 | 135.0 | None | 0 | 0.00 |
| Peace River | BS0302 | 22/08/2001 | 11:30:00 AM | 1 | 225.0 | None | 0 | 0.00 |
| | | | | 2 | 360.0 | Mountain whitefish | 1 | 0.28 |
| | | | | | | Sucker spp. | 1 | 0.28 |
| | | 17/10/2001 | 10:30:00 AM | 1 | 157.5 | Largescale sucker | 1 | 0.63 |
| | | | | | | Longnose sucker | 2 | 1.27 |
| | | | | 2 | 157.5 | Largescale sucker | 2 | 1.27 |
| | | | | | | Longnose sucker | 1 | 0.63 |
| | | | | 3 | 157.5 | None | 0 | 0.00 |
| | | | | 4 | 157.5 | None | 0 | 0.00 |

Appendix D TableD2. Beach seine sampling effort, catch, and catch-per-unit-effort during Phase I of the Peace River Fish Community Indexing Program, 2001.

| Area | Site Label | Date | Time | Haul | Effort (m ²) | Species | No. Recorded | CPUE (Fish/100m ²) |
|-------------|------------|------------|------------|------|--------------------------|-------------------|--------------|-----------------------------------|
| Zone 3 | | | | | | | | |
| Peace River | BS0304 | 22/08/2001 | 1:30:00 PM | 1 | 360.0 | None | 0 | 0.00 |
| | | | | 2 | 360.0 | None | 0 | 0.00 |
| | | | | 3 | 360.0 | Sucker spp. | 3 | 0.83 |
| | | 17/10/2001 | 2:00:00 PM | 1 | 112.5 | None | 0 | 0.00 |
| | | | | 2 | 180.0 | Arctic grayling | 1 | 0.56 |
| | | | | | | Spoonhead sculpin | 1 | 0.56 |
| | | | | 3 | 180.0 | None | 0 | 0.00 |
| | | | | 4 | 135.0 | None | 0 | 0.00 |
| | | | | 5 | 135.0 | Redside shiner | 1 | 0.74 |
| | | | | 6 | 157.5 | None | 0 | 0.00 |
| Peace River | BS0307 | 22/08/2001 | 4:00:00 PM | 1 | 382.5 | None | 0 | 0.00 |
| Peace River | BS0308 | 22/08/2001 | 4:15:00 PM | 1 | 225.0 | None | 0 | 0.00 |
| Peace River | BS0309 | 22/08/2001 | 4:30:00 PM | 1 | 337.5 | None | 0 | 0.00 |

Appendix D TableD2. Beach seine sampling effort, catch, and catch-per-unit-effort during Phase I of the Peace River Fish Community Indexing Program, 2001.

| Area | Site Label | Date | Time | Haul | Effort (m ²) | Species | No. Recorded | CPUE (Fish/100m ²) |
|-------------|------------|------------|-------------|------|--------------------------|-----------------|--------------|-----------------------------------|
| Zone 3 | | | | | | | | |
| Peace River | BS0310 | 22/08/2001 | 4:50:00 PM | 1 | 337.5 | Spottail shiner | 1 | 0.30 |
| | | 17/10/2001 | 3:00:00 PM | 1 | 225.0 | None | 0 | 0.00 |
| | | | | 2 | 225.0 | None | 0 | 0.00 |
| | | | | 3 | 225.0 | None | 0 | 0.00 |
| Peace River | BS0311 | 17/10/2001 | 1:00:00 PM | 1 | 112.5 | Redside shiner | 1 | 0.89 |
| | | | | 2 | 112.5 | None | 0 | 0.00 |
| | | | | 3 | 180.0 | None | 0 | 0.00 |
| Zone 4 | | | | | | | | |
| Peace River | BS0401 | 19/08/2001 | 10:30:00 AM | 1 | 225.0 | None | 0 | 0.00 |
| | | 14/10/2001 | 4:30:00 PM | 1 | 112.5 | Kokanee | 1 | 0.89 |
| | | | | 2 | 112.5 | Kokanee | 2 | 1.78 |
| | | | | 3 | 112.5 | None | 0 | 0.00 |
| Peace River | BS0402 | 19/08/2001 | 12:00:00 PM | 1 | 135.0 | Longnose sucker | 1 | 0.74 |
| | | | | 2 | 180.0 | None | 0 | 0.00 |
| | | 14/10/2001 | 3:00:00 PM | 1 | 112.5 | None | 0 | 0.00 |
| | | | | 2 | 180.0 | Kokanee | 12 | 6.67 |

Appendix D TableD2. Beach seine sampling effort, catch, and catch-per-unit-effort during Phase I of the Peace River Fish Community Indexing Program, 2001.

| Area | Site Label | Date | Time | Haul | Effort (m ²) | Species | No. Recorded | CPUE (Fish/100m ²) |
|-------------|------------|------------|-------------|------|--------------------------|---------------------|--------------|-----------------------------------|
| Zone 4 | | | | | | | | |
| Peace River | BS0404 | 19/08/2001 | 1:00:00 PM | 1 | 247.5 | Largescale sucker | 1 | 0.40 |
| | | | | | | Longnose sucker | 3 | 1.21 |
| | | | | | | Northern pikeminnow | 8 | 3.23 |
| | | | | | | Redside shiner | 62 | 25.05 |
| | | 14/10/2001 | 11:00:00 AM | 1 | 225.0 | None | 0 | 0.00 |
| | | | | 2 | 157.5 | None | 0 | 0.00 |
| | | | | 3 | 180.0 | None | 0 | 0.00 |
| Peace River | BS0405 | 19/08/2001 | 2:30:00 PM | 1 | 337.5 | None | 0 | 0.00 |
| | | 14/10/2001 | 12:00:00 PM | 1 | 157.5 | Mountain whitefish | 1 | 0.63 |
| | | | | 2 | 157.5 | None | 0 | 0.00 |
| | | | | 3 | 180.0 | None | 0 | 0.00 |
| Peace River | BS0406 | 19/08/2001 | 3:00:00 PM | 1 | 292.5 | None | 0 | 0.00 |

Appendix D TableD2. Beach seine sampling effort, catch, and catch-per-unit-effort during Phase I of the Peace River Fish Community Indexing Program, 2001.

| Area | Site Label | Date | Time | Haul | Effort (m ²) | Species | No. Recorded | CPUE (Fish/100m ²) |
|-------------|------------|------------|------------|------|--------------------------|--------------------|--------------|-----------------------------------|
| Zone 4 | | | | | | | | |
| Peace River | BS0407 | 19/08/2001 | 3:30:00 PM | 1 | 270.0 | Longnose sucker | 3 | 1.11 |
| | | | | | | Mountain whitefish | 3 | 1.11 |
| | | | | | | Sculpin spp. | 1 | 0.37 |
| | | | | | | Spoonhead sculpin | 2 | 0.74 |
| | | | | | | Sucker spp. | 80 | 29.63 |
| | | | | 2 | 135.0 | Mountain whitefish | 1 | 0.74 |
| | | | | | | Spoonhead sculpin | 1 | 0.74 |
| | | | | | | Sucker spp. | 1 | 0.74 |
| | | 14/10/2001 | 1:00:00 PM | 1 | 157.5 | Sucker spp. | 7 | 4.44 |
| | | | | 2 | 135.0 | Kokanee | 17 | 12.59 |
| | | | | | | Spoonhead sculpin | 2 | 1.48 |
| Peace River | BS0409 | 19/08/2001 | 4:30:00 PM | 1 | 270.0 | Longnose sucker | 5 | 1.85 |
| | | | | | | Sucker spp. | 200 | 74.07 |
| Peace River | BS0410 | 19/08/2001 | 5:30:00 PM | 1 | 135.0 | None | 0 | 0.00 |

Appendix D TableD3. Backpack electrofish sampling effort, catch, and catch-per-unit-effort during Phase I of the Peace River Fish Community Indexing Program, 2001.

| Area | Site Label | Date | Time | Effort (m) | Species | No. Recorded | CPUE (Fish/100 m) |
|---------------|------------|------------|-------------|------------|---------------------|--------------|----------------------|
| Zone 2 | | | | | | | |
| Peace River | EF0201 | 25/08/2001 | 10:45:00 AM | 80 | | | |
| | | | | | Longnose dace | 11 | 13.75 |
| | | | | | Longnose sucker | 2 | 2.50 |
| | | | | | Slimy sculpin | 2 | 2.50 |
| Peace River | EF0202 | 25/08/2001 | 11:15:00 AM | 75 | | | |
| | | | | | Longnose dace | 2 | 2.67 |
| | | | | | Redside shiner | 1 | 1.33 |
| | | | | | Slimy sculpin | 1 | 1.33 |
| | | | | | Sucker spp. | 25 | 33.33 |
| Moberly River | EF0203 | 25/08/2001 | 12:00:00 PM | 65 | | | |
| | | | | | Longnose dace | 9 | 13.85 |
| | | | | | Longnose sucker | 2 | 3.08 |
| | | | | | Northern pikeminnow | 1 | 1.54 |
| | | | | | Redside shiner | 6 | 9.23 |
| | | | | | Spottail shiner | 1 | 1.54 |
| Peace River | EF0204 | 25/08/2001 | 1:30:00 PM | 60 | | | |
| | | | | | Longnose sucker | 1 | 1.67 |
| | | | | | Slimy sculpin | 12 | 20.00 |
| Zone 3 | | | | | | | |
| Peace River | EF0301 | 22/08/2001 | 12:00:00 PM | 35 | | | |
| | | | | | Lake chub | 2 | 5.71 |
| | | | | | Prickly sculpin | 4 | 11.43 |
| | | | | | Sculpin spp. | 1 | 2.86 |
| | | | | | Slimy sculpin | 5 | 14.29 |

Appendix D TableD3. Backpack electrofish sampling effort, catch, and catch-per-unit-effort during Phase I of the Peace River Fish Community Indexing Program, 2001.

| Area | Site Label | Date | Time | Effort (m) | Species | No. Recorded | CPUE (Fish/100 m) |
|---------------|------------|------------|-------------|------------|---------------------|--------------|----------------------|
| Zone 3 | | | | | | | |
| Cache Creek | EF0302 | | | | | | |
| | | 22/08/2001 | 2:15:00 PM | 140 | | | |
| | | | | | Lake chub | 3 | 2.14 |
| | | | | | Largescale sucker | 4 | 2.86 |
| | | | | | Longnose dace | 3 | 2.14 |
| | | | | | Longnose sucker | 11 | 7.86 |
| | | | | | Northern pike | 1 | 0.71 |
| | | | | | Northern pikeminnow | 7 | 5.00 |
| | | | | | Peamouth | 1 | 0.71 |
| | | | | | Redside shiner | 24 | 17.14 |
| | | | | | Spottail shiner | 4 | 2.86 |
| | | 17/10/2001 | 11:45:00 AM | 290 | | | |
| | | | | | Kokanee | 1 | 0.34 |
| Zone 4 | | | | | | | |
| Maurice Creek | EF0401 | | | | | | |
| | | 19/08/2001 | 9:50:00 AM | 151 | | | |
| | | | | | Longnose dace | 5 | 3.31 |
| | | | | | Longnose sucker | 4 | 2.65 |
| | | | | | Mountain whitefish | 1 | 0.66 |
| | | | | | Prickly sculpin | 10 | 6.62 |
| | | | | | Rainbow trout | 1 | 0.66 |
| | | | | | Slimy sculpin | 3 | 1.99 |
| | | 14/10/2001 | 3:30:00 PM | 235 | | | |
| | | | | | Kokanee | 4 | 1.70 |
| | | | | | Longnose sucker | 1 | 0.43 |
| | | | | | Prickly sculpin | 1 | 0.43 |
| | | | | | Rainbow trout | 4 | 1.70 |
| | | | | | Slimy sculpin | 1 | 0.43 |

Appendix D TableD3. Backpack electrofish sampling effort, catch, and catch-per-unit-effort during Phase I of the Peace River Fish Community Indexing Program, 2001.

| Area | Site Label | Date | Time | Effort (m) | Species | No. Recorded | CPUE (Fish/100 m) |
|---------------|------------|------------|-------------|------------|---------------------|--------------|----------------------|
| Zone 4 | | | | | | | |
| Lynx Creek | EF0402 | | | | | | |
| | | 19/08/2001 | 11:15:00 AM | | | | |
| | | | | 135 | | | |
| | | | | | Longnose sucker | 3 | 2.22 |
| | | | | | Northern pikeminnow | 2 | 1.48 |
| | | | | | Redside shiner | 9 | 6.67 |
| | | | | | Slimy sculpin | 1 | 0.74 |
| | | 14/10/2001 | 2:30:00 PM | | | | |
| | | | | 205 | | | |
| | | | | | Bull trout | 1 | 0.49 |
| | | | | | Kokanee | 6 | 2.93 |
| | | | | | Longnose sucker | 3 | 1.46 |
| | | | | | Mountain whitefish | 2 | 0.98 |
| | | | | | Redside shiner | 1 | 0.49 |
| | | | | | Slimy sculpin | 2 | 0.98 |
| Farrell Creek | EF0403 | | | | | | |
| | | 19/08/2001 | 1:15:00 PM | | | | |
| | | | | 140 | | | |
| | | | | | Lake chub | 1 | 0.71 |
| | | | | | Largescale sucker | 5 | 3.57 |
| | | | | | Longnose dace | 3 | 2.14 |
| | | | | | Longnose sucker | 23 | 16.43 |
| | | | | | Northern pike | 1 | 0.71 |
| | | | | | Northern pikeminnow | 3 | 2.14 |
| | | | | | Peamouth | 1 | 0.71 |
| | | | | | Redside shiner | 22 | 15.71 |
| | | | | | Slimy sculpin | 1 | 0.71 |
| | | 14/10/2001 | 11:00:00 AM | | | | |
| | | | | 198 | | | |
| | | | | | Kokanee | 1 | 0.51 |
| | | | | | Longnose sucker | 3 | 1.52 |
| | | | | | Mountain whitefish | 2 | 1.01 |
| | | | | | Redside shiner | 6 | 3.03 |

Appendix D TableD4. Gill net sampling effort, catch, and catch-per-unit-effort during Phase I of the Peace River Fish Community Indexing Program, 2001.

| Area | Site Label | Date | Time | Effort (m) | Effort (seconds) | Species | No. Recorded | CPUE (Fish/100m * 1h) |
|--------|------------|------------|------------|---------------|---------------------|--------------------|--------------|--------------------------|
| Zone 2 | | | | | | | | |
| | GN0201 | 20/10/2001 | 2:30:00 PM | 60 | 3600 | None | 0 | 0.00 |
| Zone 3 | | | | | | | | |
| | GN0301 | 16/10/2001 | 4:40:00 PM | 60 | 1800 | Arctic grayling | 1 | 3.33 |
| | | | | | | Longnose sucker | 2 | 6.67 |
| | | | | | | Mountain whitefish | 1 | 3.33 |
| | GN0302 | 17/10/2001 | 2:15:00 PM | 60 | 3600 | Bull trout | 1 | 1.67 |
| | | | | | | Largescale sucker | 1 | 1.67 |
| | | | | | | Mountain whitefish | 2 | 3.33 |

APPENDIX E
CATCH RATE AND SAMPLE VARIABLE
CORRELATIONS

Appendix E Table E1. Correlations between boat electrofishing catch rate of selected fish species and sample variables during Phase I of the Peace River Fish Community Indexing Program, 2001.

| Area | Session | Sample Size | Species | Variable | Pearson Correlation | Bonferroni Probability |
|--------|---------|-------------|--------------------|--------------|---------------------|------------------------|
| Zone 1 | | | | | | |
| | August | 14 | | | | |
| | | | Arctic grayling | Conductivity | -0.145 | 1.000 |
| | | | | Light | -0.505 | 0.655 |
| | | | | Period | 0.505 | 0.655 |
| | | | | Temperature | 0.071 | 1.000 |
| | | | Bull trout | Conductivity | 0.785 | 0.009 |
| | | | | Light | 0.256 | 1.000 |
| | | | | Period | -0.060 | 1.000 |
| | | | | Temperature | 0.261 | 1.000 |
| | | | Largescale sucker | Conductivity | 0.227 | 1.000 |
| | | | | Light | -0.467 | 0.919 |
| | | | | Period | -0.118 | 1.000 |
| | | | | Temperature | 0.509 | 0.631 |
| | | | Longnose sucker | Conductivity | -0.118 | 1.000 |
| | | | | Light | 0.001 | 1.000 |
| | | | | Period | 0.337 | 1.000 |
| | | | | Temperature | 0.329 | 1.000 |
| | | | Mountain whitefish | Conductivity | -0.066 | 1.000 |
| | | | | Light | 0.184 | 1.000 |
| | | | | Period | 0.157 | 1.000 |
| | | | | Temperature | 0.167 | 1.000 |
| | | | Rainbow trout | Conductivity | -0.106 | 1.000 |
| | | | | Light | 0.062 | 1.000 |
| | | | | Period | 0.372 | 1.000 |
| | | | | Temperature | 0.038 | 1.000 |
| | October | 14 | | | | |
| | | | Arctic grayling | Conductivity | -0.384 | 1.000 |
| | | | | Light | 0.198 | 1.000 |
| | | | | Period | -0.357 | 1.000 |
| | | | | Temperature | -0.089 | 1.000 |
| | | | Bull trout | Conductivity | 0.082 | 1.000 |
| | | | | Light | 0.290 | 1.000 |
| | | | | Period | -0.150 | 1.000 |
| | | | | Temperature | 0.064 | 1.000 |
| | | | Largescale sucker | Conductivity | -0.051 | 1.000 |
| | | | | Light | -0.181 | 1.000 |
| | | | | Period | 0.273 | 1.000 |
| | | | | Temperature | 0.223 | 1.000 |
| | | | Longnose sucker | Conductivity | -0.336 | 1.000 |
| | | | | Light | -0.354 | 1.000 |
| | | | | Period | 0.025 | 1.000 |

Appendix E Table E1. Correlations between boat electrofishing catch rate of selected fish species and sample variables during Phase I of the Peace River Fish Community Indexing Program, 2001.

| Area | Session | Sample Size | Species | Variable | Pearson Correlation | Bonferroni Probability |
|-----------------|--------------------|--------------|--------------------|--------------|---------------------|------------------------|
| Zone 2 | August | 17 | Mountain whitefish | Temperature | 0.182 | 1.000 |
| | | | | Conductivity | -0.028 | 1.000 |
| | | | | Light | 0.087 | 1.000 |
| | | | | Period | 0.150 | 1.000 |
| | | | Rainbow trout | Temperature | 0.246 | 1.000 |
| | | | | Conductivity | -0.056 | 1.000 |
| | | | | Light | 0.530 | 0.515 |
| | | | | Period | -0.131 | 1.000 |
| | | | Arctic grayling | Temperature | 0.282 | 1.000 |
| | | | | Conductivity | -0.169 | 1.000 |
| | | | | Light | -0.003 | 1.000 |
| | | | | Period | -0.424 | 0.902 |
| | | | Bull trout | Temperature | -0.330 | 1.000 |
| | | | | Conductivity | -0.053 | 1.000 |
| | | | | Light | 0.225 | 1.000 |
| | | | | Period | 0.252 | 1.000 |
| | | | Largescale sucker | Temperature | -0.136 | 1.000 |
| | | | | Conductivity | -0.106 | 1.000 |
| | Light | 0.082 | | 1.000 | | |
| | Period | -0.094 | | 1.000 | | |
| | Longnose sucker | Temperature | -0.094 | 1.000 | | |
| | | Conductivity | -0.392 | 1.000 | | |
| | | Light | -0.266 | 1.000 | | |
| | | Period | -0.483 | 0.495 | | |
| | Mountain whitefish | Temperature | -0.438 | 0.789 | | |
| | | Conductivity | -0.203 | 1.000 | | |
| | | Light | 0.140 | 1.000 | | |
| | | Period | 0.012 | 1.000 | | |
| | Rainbow trout | Temperature | -0.240 | 1.000 | | |
| | | Conductivity | 0.000 | 0.000 | | |
| | | Light | 0.000 | 0.000 | | |
| | | Period | 0.000 | 0.000 | | |
| | October | 17 | Arctic grayling | Temperature | 0.000 | 0.000 |
| | | | | Conductivity | 0.000 | 0.000 |
| | | | | Light | 0.000 | 0.000 |
| | | | | Period | 0.000 | 0.000 |
| Arctic grayling | | | Temperature | 0.000 | 0.000 | |
| | | | Conductivity | -0.049 | 1.000 | |
| | | | Light | 0.168 | 1.000 | |
| | | | Period | -0.202 | 1.000 | |
| Bull trout | | | Temperature | 0.330 | 1.000 | |
| | | | Conductivity | -0.082 | 1.000 | |
| | | | Light | 0.080 | 1.000 | |

Appendix E Table E1. Correlations between boat electrofishing catch rate of selected fish species and sample variables during Phase I of the Peace River Fish Community Indexing Program, 2001.

| Area | Session | Sample Size | Species | Variable | Pearson Correlation | Bonferroni Probability |
|---------------|--------------|-------------|--------------------|--------------|---------------------|------------------------|
| Zone 3 | August | 13 | Largescale sucker | Period | -0.479 | 1.000 |
| | | | | Temperature | 0.030 | 1.000 |
| | | | | Conductivity | -0.297 | 1.000 |
| | | | | Light | 0.315 | 1.000 |
| | | | Longnose sucker | Period | -0.133 | 1.000 |
| | | | | Temperature | -0.146 | 1.000 |
| | | | | Conductivity | -0.358 | 1.000 |
| | | | | Light | -0.002 | 1.000 |
| | | | Mountain whitefish | Period | 0.018 | 1.000 |
| | | | | Temperature | 0.547 | 0.230 |
| | | | | Conductivity | 0.130 | 1.000 |
| | | | | Light | -0.148 | 1.000 |
| | | | Rainbow trout | Period | 0.017 | 1.000 |
| | | | | Temperature | -0.005 | 1.000 |
| | | | | Conductivity | -0.110 | 1.000 |
| | | | | Light | 0.243 | 1.000 |
| | | | Arctic grayling | Period | -0.349 | 1.000 |
| | | | | Temperature | 0.133 | 1.000 |
| | | | | Conductivity | -0.415 | 1.000 |
| | | | | Light | -0.590 | 0.338 |
| | | | Bull trout | Period | 0.234 | 1.000 |
| | | | | Temperature | 0.416 | 1.000 |
| | | | | Conductivity | 0.141 | 1.000 |
| | | | | Light | 0.199 | 1.000 |
| | | | Largescale sucker | Period | 0.473 | 1.000 |
| | | | | Temperature | -0.396 | 1.000 |
| | | | | Conductivity | 0.573 | 0.407 |
| | | | | Light | 0.047 | 1.000 |
| | | | Longnose sucker | Period | -0.248 | 1.000 |
| | | | | Temperature | -0.070 | 1.000 |
| | | | | Conductivity | 0.694 | 0.085 |
| | | | | Light | 0.187 | 1.000 |
| | | | Mountain whitefish | Period | -0.096 | 1.000 |
| | | | | Temperature | -0.238 | 1.000 |
| | | | | Conductivity | -0.216 | 1.000 |
| | | | | Light | 0.268 | 1.000 |
| Rainbow trout | Period | 0.133 | 1.000 | | | |
| | Temperature | -0.367 | 1.000 | | | |
| | Conductivity | -0.466 | 1.000 | | | |
| | Light | -0.576 | 0.392 | | | |

Appendix E Table E1. Correlations between boat electrofishing catch rate of selected fish species and sample variables during Phase I of the Peace River Fish Community Indexing Program, 2001.

| Area | Session | Sample Size | Species | Variable | Pearson Correlation | Bonferroni Probability |
|-------------------|--------------------|--------------|-------------------|--------------|---------------------|------------------------|
| Zone 4 | October | 13 | Arctic grayling | Period | 0.367 | 1.000 |
| | | | | Temperature | 0.357 | 1.000 |
| | | | Bull trout | Conductivity | -0.092 | 1.000 |
| | | | | Light | 0.086 | 1.000 |
| | | | | Period | -0.298 | 1.000 |
| | | | | Temperature | 0.098 | 1.000 |
| | | | Largescale sucker | Conductivity | -0.424 | 1.000 |
| | | | | Light | -0.529 | 0.633 |
| | | | | Period | -0.182 | 1.000 |
| | | | | Temperature | 0.379 | 1.000 |
| | | | Longnose sucker | Conductivity | -0.275 | 1.000 |
| | | | | Light | 0.159 | 1.000 |
| | | | | Period | -0.567 | 0.433 |
| | | | | Temperature | 0.288 | 1.000 |
| | Mountain whitefish | Conductivity | -0.551 | 0.508 | | |
| | | Light | -0.500 | 0.821 | | |
| | | Period | -0.368 | 1.000 | | |
| | | Temperature | 0.541 | 0.563 | | |
| | Rainbow trout | Conductivity | 0.505 | 0.783 | | |
| | | Light | 0.330 | 1.000 | | |
| | | Period | 0.239 | 1.000 | | |
| | | Temperature | -0.480 | 0.966 | | |
| | August | 14 | Arctic grayling | Conductivity | -0.201 | 1.000 |
| | | | | Light | -0.020 | 1.000 |
| | | | | Period | -0.451 | 1.000 |
| | | | | Temperature | 0.237 | 1.000 |
| | | | Bull trout | Conductivity | -0.258 | 1.000 |
| | | | | Light | -0.248 | 1.000 |
| Period | | | | 0.571 | 0.328 | |
| Temperature | | | | 0.320 | 1.000 | |
| Largescale sucker | | | Conductivity | 0.028 | 1.000 | |
| | | | Light | 0.443 | 1.000 | |
| | | | Period | 0.048 | 1.000 | |
| | | | Temperature | -0.199 | 1.000 | |
| Longnose sucker | | | Conductivity | -0.188 | 1.000 | |
| | | | Light | -0.347 | 1.000 | |
| | Period | -0.154 | 1.000 | | | |
| | Temperature | 0.301 | 1.000 | | | |
| | | | Longnose sucker | Conductivity | -0.256 | 1.000 |

Appendix E Table E1. Correlations between boat electrofishing catch rate of selected fish species and sample variables during Phase I of the Peace River Fish Community Indexing Program, 2001.

| Area | Session | Sample Size | Species | Variable | Pearson Correlation | Bonferroni Probability |
|---------------|--------------|-------------|--------------------|--------------|---------------------|------------------------|
| October | 13 | | Mountain whitefish | Light | -0.415 | 1.000 |
| | | | | Period | -0.075 | 1.000 |
| | | | | Temperature | 0.352 | 1.000 |
| | | | Rainbow trout | Conductivity | 0.322 | 1.000 |
| | | | | Light | 0.378 | 1.000 |
| | | | | Period | -0.249 | 1.000 |
| | | | | Temperature | -0.403 | 1.000 |
| | | | Rainbow trout | Conductivity | -0.078 | 1.000 |
| | | | | Light | -0.323 | 1.000 |
| | | | | Period | 0.513 | 0.609 |
| | | | | Temperature | 0.384 | 1.000 |
| | | | Arctic grayling | Conductivity | -0.101 | 1.000 |
| | | | | Light | 0.114 | 1.000 |
| | | | | Period | -0.630 | 0.209 |
| | | | | Temperature | 0.114 | 1.000 |
| | | | Bull trout | Conductivity | 0.805 | 0.009 |
| | | | | Light | -0.292 | 1.000 |
| | | | | Period | -0.005 | 1.000 |
| | | | | Temperature | -0.813 | 0.007 |
| | | | Largescale sucker | Conductivity | -0.306 | 1.000 |
| | | | | Light | 0.052 | 1.000 |
| | | | | Period | 0.303 | 1.000 |
| | | | | Temperature | 0.296 | 1.000 |
| | | | Longnose sucker | Conductivity | -0.260 | 1.000 |
| | | | | Light | -0.268 | 1.000 |
| | | | | Period | 0.398 | 1.000 |
| | | | | Temperature | 0.255 | 1.000 |
| | | | Mountain whitefish | Conductivity | 0.549 | 0.518 |
| | | | | Light | -0.181 | 1.000 |
| | | | | Period | -0.271 | 1.000 |
| Temperature | -0.589 | 0.343 | | | | |
| Rainbow trout | Conductivity | 0.201 | 1.000 | | | |
| | Light | -0.590 | 0.339 | | | |
| | Period | -0.125 | 1.000 | | | |
| | Temperature | -0.163 | 1.000 | | | |