## LAKE TROUT POPULATION ASSESSMENT

## TA'TLA MUN (TATLMAIN LAKE)

## 2011



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Environment Environnement

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Yukon Fish and Wildlife Branch<br>TR-12-16

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## Summary

Environment Yukon has been surveying important fish stocks since 1991. We use these surveys to detect population changes and monitor population health. Along with angler harvest surveys, these data are also used to assess the sustainability and impact of fisheries.

Environment Yukon works with First Nations, Renewable Resources Councils, and user groups to determine priority lakes for surveys. Criteria for identification of priority lakes include accessibility, sensitivity, and management concern. The surveys focus on lake trout, an indicator of the health of northern lake ecosystems.

We surveyed Ta'tla Mun (Tatlmain Lake) in 2011 using Summer Profundal Index Netting (SPIN). Environment Yukon previously surveyed the lake using a different index netting technique in 1999 and 2004. SPIN provides more statistically robust data and improves confidence in survey results (Jessup and Millar 2011).

Lake-wide catch per unit effort (CPUE) was 1.00 lake trout per net set. Lake trout density was estimated at 4.1 lake trout / hectare, which is high when compared to other similar Yukon lakes sampled to date.

## Key Findings

- Ta'tla Mun has an abundant, healthy population of large-body lake trout.
- Lake trout density was high compared to other large-body lake trout lakes surveyed to date.


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## Introduction

Each year, Environment Yukon conducts assessment of fish populations, with a focus on lake trout. Between 1991 and 2009, over 100 Yukon lakes were surveyed using small-mesh netting, a method based on the index netting techniques described by Lester et al. (1991). Beginning in 2010, we began to assess fish populations using a new method, Summer Profundal Index Netting (SPIN; Sandstrom and Lester 2009). SPIN provides more statistically robust data and improves confidence in survey results (Jessup and Millar 2011).

We choose lakes for assessment based on the size of the active recreational fishery, the aboriginal subsistence fishery, and the commercial and domestic fisheries, as well as other available information. Lakes with heavy harvest pressure are surveyed on a regular basis.

The SPIN assessment involves setting gillnets at various sites in the lake and recording the catch and biological information about each fish caught. The survey usually tells us:

- relative abundance of lake trout as measured by an index (CPUE, or catch per unit effort);
- changes in relative abundance from previous surveys;
- the estimated density (number of lake trout per hectare) and abundance (number of lake trout) in the lake;
- length and weight of individual lake trout as well as other species captured; and
- age and diet of any fish killed.

Environment Yukon surveyed Ta'tla Mun using SPIN in 2011 and using small-mesh netting in 1999 and 2004. Differences in
methodology between the 2 methods mean that results from the 2011 survey cannot be compared statistically with past surveys. Here we report the results of the 2011 SPIN survey and make only subjective comparisons with previous surveys.

## Study Area

Ta'tla Mun is located approximately 30 km southeast of Pelly Crossing (Figure 1). The lake has an east-west aspect, is approximately 20 km long, and covers an area of $3,141 \mathrm{ha}$. Mean depth is about 27 m and maximum depth is 48 m . The lake is fed by Ta'tla Mun Creek, Mica Creek, and several other unnamed creeks. The lake is drained by Mica Creek, which flows northwest to the Pelly River, part of the Yukon River watershed. Several fish species are found in the lake, including lake trout, northern pike, burbot, lake whitefish, Arctic grayling, longnose sucker, and slimy sculpin. Broad whitefish were known to be present historically but have not been recorded in the lake since 1991.

The lake lies within the Traditional Territory of the Selkirk First Nation. There is no road access to the lake, but there is a trail from Pelly Crossing accessible by fourwheeler or snowmobile. The trail leads to a camp, belonging to Selkirk First Nation, situated at the western margin of the lake. The lake is historically and culturally significant to the First Nation and is designated as a Special Management Area
(Selkirk First Nation and Yukon Government 2001).

Historically, the lake has been used for subsistence, commercial, and recreational fishing. At one time there was a permanent First Nation fishing village situated at the western end of the lake, near the present Selkirk First Nation camp. The lake was also used for subsistence by the Hudson's Bay Company in the 19 th century (Elson 1973). A commercial fishery was active on the lake during the Klondike gold rush and Ta'tla Mun was reportedly a major producer of fish for Dawson City (Seigel and McEwen 1984). There was a much smaller sporadic commercial fishery into the 1980s. There has been no commercial fishing on the lake since then.

The recreational fishery at Ta'tla Mun has been managed with Special Management Regulations since 2002; from 1991 to 2000 it was managed under Conservation Waters regulations. General catch and possession limits now apply but there is an aggregate catch limit of 5 fish (of any species) per day, whether the fish is kept or released. This unique regulation reflects the concerns brought forward in the Ta'tla Mun Special Management Area planning process regarding respect for the resource and excessive catch and release. Lake trout catch and possession limits are 3 and 6 respectively, and only one lake trout in possession may be over 65 cm . A special permit, available at no cost from Environment Yukon, is required to angle at Ta'tla Mun.

## Methods

We sampled Ta'tla Mun 5-8 July 2011. We followed the Summer Profundal Index Netting (SPIN) methodology for lake trout assessment (Sandstrom and Lester 2009, Jessup and Millar 2011). We set a total of 63 nets, divided among 5 depth strata (Table 1) and each net was set for 2 hours. Each 64meter gillnet was composed of 8 panels of monofilament web of different mesh sizes from 57 mm to 127 mm . The number of sets in each stratum was initially weighted by stratum surface area. However, we adjusted the final distribution of effort midway through the survey by concentrating on those strata with the highest catch rates. Initial set locations within each stratum were chosen using random point generation in ArcGIS 9.3. Any clumped distributions of points were dispersed manually to ensure coverage of the entire lake.

Catch per unit effort (CPUE), or the number of lake trout of "harvestable" size ( 300 mm and up) caught per net, was calculated for each stratum. We accounted for net selectivity (the fact that certain sizes of fish are more prone to capture than others) by applying a correction factor to each fish caught, based on its likelihood of capture (see Sandstrom and Lester, 2009 for a full rationale of net selectivity). The total stratified lakewide CPUE was calculated as:

$$
\text { Lakewide CPUE }=\Sigma\left(\text { CPUE }_{\mathrm{i}} \bullet \mathrm{~W}_{\mathrm{i}}\right)
$$

where:
$\mathrm{CPUE}_{\mathrm{i}}=$ selectivity adjusted CPUE of stratum ${ }_{i}$
$\mathrm{W}_{\mathrm{i}}=\operatorname{area}$ of stratum ${ }_{\mathrm{i}} /$ lake area


Figure 1. Location of Ta'tla Mun, Yukon.

Table 1. Effort breakdown by stratum.

| Stratum (depth range) | Area |  | Number of Sets |  |
| :---: | :---: | :---: | :---: | :---: |
|  | Ha | \% | No. | \% |
| 1 (0-10 m) | 739 | 24 | 12 | 19 |
| 2 (10-20 m) | 475 | 15 | 15 | 24 |
| 3 (20-30 m) | 488 | 16 | 15 | 24 |
| 4 (30-40 m) | 637 | 20 | 12 | 19 |
| 5 (40+ m) | 803 | 26 | 9 | 14 |
| Total | 3142 | 100 | 63 | 100 |

CPUE is considered an index of abundance and changes in the CPUE are thought to reflect actual changes in the lake trout population. Therefore, CPUE can be compared between surveys and used to detect population growth or decline. The method excludes fish below 300 mm because they are not usually caught by anglers.

We then converted CPUE to density (fish/ha) based on an empirical relationship between CPUE and density that has been established for Ontario lakes. From this, we estimated absolute abundance (i.e., the total population size) by multiplying density by lake size (number of fish/ha • lake area (ha) = number of fish in lake). Before we can be fully confident in our estimates of density and absolute abundance, the relationship between CPUE and density must be verified for Yukon lakes

We used SPIN Support Systems Ver. 9.04 for calculations of CPUE, density, and population size, as well as predictions of sample size and power for future surveys. Temperature and dissolved oxygen profiles were taken using a multiparameter probe (YSI 600QS; YSI Inc., Yellow Springs, OH).

We measured, weighed, and released all fish captured. Any fish that died was sampled for age (using otoliths or ear "bones") and diet (stomach contents).

## Results and Discussion

Temperature and Dissolved Oxygen
Temperature and dissolved oxygen are water quality variables critical to
lake trout and they determine suitable habitat within a lake. Following Clark et al. (2004), we define lake trout habitat as suitable where temperatures are less than $15^{\circ} \mathrm{C}$ and dissolved oxygen is greater than $4 \mathrm{mg} / \mathrm{L}$. At temperatures above $15^{\circ} \mathrm{C}$ or dissolved oxygen less than 4 $\mathrm{mg} / \mathrm{L}$ the habitat is unsuitable. The optimal temperature range for Yukon lake trout is between $2^{\circ}$ and $12^{\circ} \mathrm{C}$ (Mackenzie-Grieve and Post 2006). The optimal dissolved oxygen level for lake trout is greater or equal to $7 \mathrm{mg} / \mathrm{L}$ (Evans 2005).

Temperature and dissolved oxygen profiles were taken on 8 July 2011 in the deepest part of the lake. The lake was thermally stratified with the thermocline (zone of steep temperature gradient) extending from the surface to about 13 m . Below this, temperature remained near $4^{\circ} \mathrm{C}$ to the bottom. Temperature was unsuitable for lake trout $\left(>15^{\circ} \mathrm{C}\right)$ from the surface down to about 4 m , suitable $\left(12-15^{\circ} \mathrm{C}\right)$ from 4-7m, and optimal $\left(<12^{\circ} \mathrm{C}\right)$ below about 7 m . The dissolved oxygen profile shows that oxygen declined with depth (characteristic of productive lakes), being optimal ( $>7 \mathrm{mg} / \mathrm{L}$ ) above 33 m depth, suitable ( $4-7 \mathrm{mg} / \mathrm{L}$ ) from $33-37 \mathrm{~m}$ depth, unsuitable ( $<4 \mathrm{mg} / \mathrm{L}$ ) for lake trout below 37 m depth, and completely anoxic (without oxygen) below 40 m depth (Figure 2).

In summary, water conditions were suitable for lake trout between about 4 m and 37 m , encompassing all of stratums 2 and 3, and parts of stratums 1 and 4. Lake trout habitat was optimal between 7 m and 33 m . Stratum 5 was entirely unsuitable because of low oxygen conditions.


Figure 2. Temperature and dissolved oxygen profiles from 8 July, 2011 showing the locations of unsuitable, suitable, and optimal habitats.

## CPUE, Density, and Population Size

We captured a total of 65 lake trout in this survey (see Appendix 2 for set and capture locations and Appendix 4 for capture details). Other species captured included lake whitefish, burbot, and northern pike (see Appendix 3 for data on lake whitefish). Total mortalities during the survey were 15 lake trout ( $23 \%$ mortality rate), and 492 lake whitefish (76\%). All mortalities were provided to the Selkirk First Nation for distribution to citizens.

Adjusting the total catch for net selectivity bias (Sandstrom and Lester 2009) resulted in a selectivity-adjusted total catch of 76 lake trout (Table 2). After weighting the data by catch in each strata, we found a lake-wide CPUE of 1.00 (SE $=0.14)$.

Lake trout density was estimated at 4.1 lake trout/ha and lake-wide abundance was estimated at 12,937 lake trout ( $68 \%$ confidence interval: 7,570-18,515; Sandstrom and Lester 2009).

Table 2. Selectivity-adjusted catch by stratum.

| Stratum (depth range) | \# (\%) Sample Sites | Catch | CPUE |
| :---: | :---: | :---: | :---: |
| $\mathbf{1 ( 0 - 1 0 ~ m )}$ | $12(19 \%)$ | 20 | 1.66 |
| $\mathbf{2 ( 1 0 - 2 0 ~ m )}$ | $15(24 \%)$ | 35 | 2.30 |
| $\mathbf{3 ( 2 0 - 3 0 ~ \mathbf { ~ m } )}$ | $15(24 \%)$ | 15 | 1.02 |
| $\mathbf{4 ( 3 0 - 4 0 ~ \mathbf { ~ m } )}$ | $12(19 \%)$ | 6 | 0.49 |
| $\mathbf{5 ( 4 0 + \mathbf { m } )}$ | $9(14 \%)$ | 0 | 0.00 |
| Total | $63(100 \%)$ | 76 | 1.00 |

## Biological Characteristics

Average length, age, and diet can reveal whether fish in a lake are small-body lake trout that feed mostly on invertebrates or largebody lake trout that feed mostly on fish. The large-body, fish-eating form has a higher growth rate, a larger maximum size, and a larger size-at-maturity than the smallbody, invertebrate-eating form.

Average length and weight of lake trout in Ta'tla Mun were 671 mm and $4,250 \mathrm{~g}$ respectively. The length distribution of lake trout captured is presented in Figure 3. Mean age of lake trout was 22; the youngest was 12 and the oldest was 34 . The two 12-year-old fish captured were both immature males; the rest of the catch was either mature, or maturity could not be determined. Therefore, age at maturity was roughly estimated to be 13 (although this is based on few data points). Growth appears to slow and lake trout appear to reach nearmaximum size at age 25 (Figure 4). Only 15 lake trout were aged so
conclusions regarding growth and age-at-maturity are preliminary.

Stomachs retained for diet analysis from 15 lake trout in 2011 revealed that lake trout in Ta'tla Mun feed entirely on fish (Table 3). Both size and diet information suggest that the majority of fish in Ta'tla Mun are the large-body type.

## Results from Previous Surveys

The small-mesh netting surveys in 1999 and 2004 found CPUE of 0.53 and 0.50 respectively. CPUE in both years was slightly higher than the Yukon average for lakes with largebody lake trout (0.41). An index netting survey was carried out in 1991 but results from this survey are only partially available. Overall, it found a healthy population of lake trout. These surveys used methodology that is quite different from the current methods in terms of set location, net materials and size, set duration, and total number of sets so we can only make subjective comparisons with this data.


Figure 3. Length distribution of captured lake trout.


Figure 4. Length at age of sampled lake trout.

Table 3. Stomach contents of sampled lake trout.

|  | Volume of stomach contents |
| :--- | :---: |
| Lake whitefish | $76.2 \%$ |
| Unidentified fish | $19.0 \%$ |
| Slimy sculpin | $4.8 \%$ |

## Population Status and Conclusions

Larger, less productive lakes with large-body lake trout usually have lower densities than smaller, more productive lakes with small-body lake trout (Burr 1997). Lakes that have predator species other than lake trout - like northern pike and burbot - are also expected to have lower densities than lakes with fewer predators (Carl et al. 1990).

Ta'tla Mun is a large lake and is relatively productive for its size (Appendix 1). It contains large-body lake trout as well as other top
predator species (northern pike and burbot). We compared density to other large-body lake trout lakes with similar fish communities sampled with SPIN (Sekulmun, Ethel, and Tarfu lakes; Appendix 1). We found that Ta'tla Mun had a high density relative to these lakes. This result was expected. Ethel and Tarfu Lakes have very low densities of lake trout and are considered depleted. Sekulmun Lake is considered healthy, but is less productive and has a naturally low density of lake trout.

Based on the results of the 2011 survey, and in the context of the lakes surveyed to date, the lake trout population in Ta'tla Mun is abundant and healthy. This survey also captured large numbers of the lake trout's main prey item, lake whitefish, indicating that prey is abundant and that the system overall is productive (Appendix 4). Previous small-mesh netting surveys also found a healthy population of lake trout, reporting a higher than average CPUE when compared to similar lakes.

## Future Surveys

Because we found the population to be healthy, we are most interested in being able to detect future population declines that might require management action. To facilitate responsive management, we target the ability to detect $25 \%$ changes in CPUE with a power of $80 \%$. Power refers to the probability of detecting a change when that change is real. In other words, we want to have an $80 \%$ chance to detect a $25 \%$ decline in CPUE.

At the current sample size ( $\mathrm{n}=$ 63 net sets), we have a predicted power of $57 \%$ to detect future declines in CPUE of $25 \%$. Power can be increased by increasing the sample size, reducing the variation in catch data, or relaxing the magnitude of change to be detected. Increasing the sample size to 85 net sets in future years should allow us to detect declines of $30 \%$ in CPUE with $80 \%$ power.

Additionally, focusing sampling effort on strata with the highest catch rates could increase future surveys' power to detect change. In 2011, dissolved oxygen profiles were not taken until near the end of the survey, resulting in wasted effort in the deepest part of the lake (stratum 5) where dissolved oxygen conditions were too low for lake trout. Temperature and dissolved oxygen profiles should be taken before the survey begins in order to better focus sampling effort.

One additional consideration is that the number of sets that could be performed daily was limited by extremely high catch of lake whitefish ( 651 fish). In future SPIN surveys of lakes with extremely high lake whitefish densities, each survey crew should expect to do only 8 sets per day, and should be prepared to sample and process large numbers of whitefish.

Results of the 2011 SPIN survey demonstrate healthy and abundant lake trout and lake whitefish populations in Ta'tla Mun. Unless lake conditions or fish harvest patterns show evidence of change, we do not foresee a need for a repeat SPIN survey of Ta'tla Mun in the near future.

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## APPENDIX 1 - Estimated CPUE (SPIN) and density from Yukon lakes to date.

Lakes are arranged in descending order of lake trout density (last column). Information on lake trout morphology and life history (small body vs. large body), and the presence of other top predators is included. Lake productivity refers to the annual maximum sustainable yield of all fish in kilograms per hectare. It is estimated following the method proposed by Schlesinger and Regier (1982) of relating mean annual air temperature to the morphoedaphic index (Ryder 1965). This information is presented so that comparisons can be made between lakes with similar characteristics.

| Lake | Lake Characteristics |  |  |  | SPIN Results |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Surface Area (ha) | Productivity (kg fish / ha) | Lake Trout Morphology | Other Top Predators | Year | CPUE | Density (fish/ha) |
| Caribou | 51 | 3.89 | Small body | None | 2011 | 3.63 | 53.2 |
| Lewes | 131 | 3.17 | Small body | None | 2010 | 3.31 | 48.6 |
| Fish | 1386 | 2.44 | Small body | None | 2009 | 2.64 | 38.9 |
| Kathleen | 3398 | 1.87 | Small body | None | 2011 | 2.11 | 31.2 |
| Louise (Jackson) | 68 | 3.27 | Small body | Rainbow trout | 2011 | 2.02 | 29.8 |
| Fish | 1386 | 2.44 | Small body | None | 2010 | 2.01 | 29.7 |
| Kathleen | 3398 | 1.87 | Small body | None | 2010 | 1.94 | 28.6 |
| Ta'tla Mun | 3265 | 2.05 | Large body | Pike/burbot | 2011 | 1.00 | 4.1 |
| Sekulmun | 4985 | 1.16 | Large body | Pike/burbot | 2010 | 0.88 | 3.7 |
| Ethel | 4610 | 1.42 | Large body | Pike/burbot | 2011 | 0.30 | 2.0 |
| Tarfu | 405 | 2.74 | Large body | Pike | 2010 | 0.20 | 1.7 |
| Pine | 603 | 2.87 | Small body | Pike/burbot | 2010 | 0.08 | 1.5 |
| Snafu | 284 | 3.54 | Large Body | Pike | 2010 | 0 | 0 |

## APPENDIX 2 - Set and capture locations (non-adjusted catch data), 2011 Ta'tla Mun SPIN

| Ta'tla Mun SPIN |  |  |  |
| :---: | :---: | :---: | :---: |
| Set and Capture Locations |  |  |  |
| Stratum (depth range) | $\begin{aligned} & \text { \# Sample } \\ & \text { Sites } \end{aligned}$ | Catch | Catch |
| 1 (0-10m) | 12 (19\%) | 18 | 28\% |
| $2(10-20 \mathrm{~m})$ | 15 (24\%) | 29 | 44\% |
| 3 (20-30m) | 15 (24\%) | 13 | 20\% |
| 4 ( $30-40 \mathrm{~m}$ ) | 12 (19\%) | 5 | 8\% |
| 5 (40-50m) | 9 (14\%) | 0 | 0\% |
| Total | 63 | 65 | 100\% |

## Legend

Lake Trout Caught Depth (m)


## APPENDIX 3 - Lake whitefish data, 2011 Ta'tla Mun SPIN

Lake whitefish are important in Ta'tla Mun. They are harvested for subsistence by members of the Selkirk First Nation and they are also the main prey species of lake trout and other predators. The SPIN methodology is designed specifically for lake trout abundance and density, but can give some information on the relative abundance of other cold-water species, such as lake whitefish. Because of the high variability in whitefish catch data, SPIN may not be appropriate for detecting changes in abundance of species other than lake trout.

A total of 651 lake whitefish were captured in this survey. Lakewide

CPUE of lake whitefish (calculated the same as for lake trout but without the selectivity correction) was 10.16 . This is extraordinarily high when compared to the next largest lake whitefish CPUE recorded in Yukon to date of 4.69 (Snafu Lake). However, to date only 5 SPIN surveys have captured lake whitefish, so there is a small set of lakes among which comparisons can be made. An established relationship between lake whitefish CPUE and density does not exist (as it does for lake trout), so estimates of density and population size cannot be accurately made. However, the high CPUE indicates a healthy population of lake whitefish in Ta'tla Mun. Biological data (age and length, Figures 3.1-3.3) suggest a stable lake whitefish population. Data on burbot and pike are not presented due to low sample sizes.


Figure 3.1. Length distribution of lake whitefish captured in the 2011 SPIN survey at Ta'tla Mun. Mean length was 335 mm and modal length was 310 mm ; 632 of the 651 lake whitefish captured were measured.


Figure 3.2. Age distribution of 138 lake whitefish captured in the 2011 SPIN survey at Ta'tla Mun. Mean age was 14, modal age was 12, and maximum age was $29.50 \%$ of lake whitefish at age 8 were mature, and by age 13, 100\% of lake whitefish were mature.


Figure 3.3. Length at age of lake whitefish captured in the 2011 SPIN survey at Ta'tla Mun. Lake whitefish appear to attain a near-maximum size at age 17.

## APPENDIX 4 - Capture details, 2011 Ta'tla Mun SPIN

| Date | Effort (Set \#) | Stratum | ${ }^{1}$ Species | Fork Length (mm) | Weight (g) | Fate | Sex |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| July 5, 2011 | 1 | 2 | LW | 335 | 500 | D | F |
| July 5, 2011 | 1 | 2 | LW | 360 | 550 | D | F |
| July 5, 2011 | 1 | 2 | LW | 420 | 1050 | D | M |
| July 5, 2011 | 1 | 2 | LW | 445 | 1250 | D | M |
| July 5, 2011 | 1 | 2 | LW | 390 | 1000 | D | F |
| July 5, 2011 | 1 | 2 | LW | 360 | 700 | D | F |
| July 5, 2011 | 1 | 2 | LW | 415 | 1000 | D | F |
| July 5, 2011 | 1 | 2 | LW | 375 | 650 | D | F |
| July 5, 2011 | 1 | 2 | LT | 495 | 400 | R |  |
| July 5, 2011 | 1 | 2 | LT | 740 | 5100 | R |  |
| July 5, 2011 | 1 | 2 | LT | 730 | 5300 | R |  |
| July 5, 2011 | 1 | 2 | LW | 320 | 600 | RP |  |
| July 5, 2011 | 1 | 2 | LW | 360 | 650 | RP |  |
| July 5, 2011 | 1 | 2 | LW | 320 | 500 | RP |  |
| July 5, 2011 | 1 | 2 | LW | 335 | 500 | RP |  |
| July 5, 2011 | 1 | 2 | LW | 320 | 450 | RP |  |
| July 5, 2011 | 1 | 2 | LW | 320 | 450 | RP |  |
| July 5, 2011 | 1 | 2 | LW | 325 | 400 | RP |  |
| July 5, 2011 | 2 | 2 | LW | 410 | 1000 | D |  |
| July 5, 2011 | 2 | 2 | LW | 320 | 500 | D |  |
| July 5, 2011 | 2 | 2 | LW | 305 | 500 | D |  |
| July 5, 2011 | 2 | 2 | LW | 291 | 350 | D |  |
| July 5, 2011 | 2 | 2 | LW | 305 | 400 | D |  |
| July 5, 2011 | 2 | 2 | LW | 255 | 250 | D |  |
| July 5, 2011 | 2 | 2 | LW | 377 | 800 | D |  |
| July 5, 2011 | 2 | 2 | LW | 345 | 600 | D |  |
| July 5, 2011 | 2 | 2 | LT | 750 | 5500 | R |  |
| July 5, 2011 | 2 | 2 | LW | 280 | 300 | R |  |
| July 5, 2011 | 2 | 2 | LW | 375 | 550 | R |  |
| July 5, 2011 | 2 | 2 | LW | 295 | 400 | R |  |
| July 5, 2011 | 2 | 2 | LW | 355 | 500 | R |  |
| July 5, 2011 | 2 | 2 | LW | 290 | 300 | R |  |
| July 5, 2011 | 2 | 2 | LW | 370 | 700 | R |  |
| July 5, 2011 | 2 | 2 | LT | 800 | 6000 | RP |  |
| July 5, 2011 | 2 | 2 | LW | 305 | 400 | RP |  |

${ }^{1} \mathrm{LT}=$ lake trout; $\mathrm{LW}=$ round whitefish, $\mathrm{BB}=$ burbot, $\mathrm{NP}=$ northern pike
R=released; RP=released, poor condition; D=dead; ESC=escaped

Appendix 4 Continued

| Date | Effort (Set \#) | Stratum | ${ }^{2}$ Species | Fork Length (mm) | Weight (g) | Fate | Sex |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| July 5, 2011 | 2 | 2 | LW | 320 | 450 | RP |  |
| July 5, 2011 | 3 | 2 | LW | 420 | 1000 | D |  |
| July 5, 2011 | 3 | 2 | LW | 240 | 200 | D |  |
| July 5, 2011 | 3 | 2 | LW | 365 | 700 | D |  |
| July 5, 2011 | 3 | 2 | LW | 285 | 400 | D |  |
| July 5, 2011 | 3 | 2 | LW | 278 | 300 | D |  |
| July 5, 2011 | 3 | 2 | LW | 445 | 1400 | D |  |
| July 5, 2011 | 3 | 2 | LW | 355 | 700 | D |  |
| July 5, 2011 | 3 | 2 | LW | 340 | 600 | D |  |
| July 5, 2011 | 3 | 2 | LW | 300 | 400 | D |  |
| July 5, 2011 | 3 | 2 | LW | 255 | 300 | D |  |
| July 5, 2011 | 3 | 2 | LW | 270 | 300 | D |  |
| July 5, 2011 | 3 | 2 | LW | NA | NA | D |  |
| July 5, 2011 | 3 | 2 | LW | NA | NA | D |  |
| July 5, 2011 | 3 | 2 | LW | NA | NA | D |  |
| July 5, 2011 | 3 | 2 | LW | NA | NA | D |  |
| July 5, 2011 | 3 | 2 | LW | NA | NA | D |  |
| July 5, 2011 | 3 | 2 | LW | NA | NA | ESC |  |
| July 5, 2011 | 3 | 2 | LW | NA | NA | ESC |  |
| July 5, 2011 | 3 | 2 | LW | 285 | 300 | RP |  |
| July 5, 2011 | 3 | 2 | LW | 345 | 450 | RP |  |
| July 5, 2011 | 3 | 2 | LW | 300 | 300 | RP |  |
| July 5, 2011 | 3 | 2 | LW | 300 | 300 | RP |  |
| July 5, 2011 | 3 | 2 | LW | 380 | 600 | RP |  |
| July 5, 2011 | 3 | 2 | LW | NA | NA | RP |  |
| July 5, 2011 | 3 | 2 | LW | NA | NA | RP |  |
| July 5, 2011 | 4 | 1 | LW | 330 | 500 | D |  |
| July 5, 2011 | 4 | 1 | LW | 310 | 400 | D |  |
| July 5, 2011 | 4 | 1 | LW | 335 | 500 | D |  |
| July 5, 2011 | 4 | 1 | LW | 320 | 500 | D |  |
| July 5, 2011 | 4 | 1 | LW | 335 | 500 | D |  |
| July 5, 2011 | 4 | 1 | LW | 310 | 400 | D |  |
| July 5, 2011 | 4 | 1 | LW | 220 | 100 | D |  |
| July 5, 2011 | 4 | 1 | LW | 360 | 600 | D |  |
| July 5, 2011 | 4 | 1 | LW | 340 | 500 | D |  |
| July 5, 2011 | 4 | 1 | LW | 280 | 300 | D |  |
| July 5, 2011 | 4 | 1 | LW | 320 | 400 | D |  |

[^0]$\mathrm{R}=$ released; RP=released, poor condition; $\mathrm{D}=$ dead; $\mathrm{ESC}=$ escaped

Appendix 4 Continued

| Date | Effort (Set \#) | Stratum | ${ }^{3}$ Species | Fork Length (mm) | Weight (g) | Fate | Sex |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| July 5, 2011 | 4 | 1 | LW | 285 | 300 | D |  |
| July 5, 2011 | 4 | 1 | LW | 275 | 300 | D |  |
| July 5, 2011 | 4 | 1 | LW | 285 | 300 | D |  |
| July 5, 2011 | 4 | 1 | LW | 345 | 500 | D |  |
| July 5, 2011 | 4 | 1 | LW | 290 | 300 | D |  |
| July 5, 2011 | 4 | 1 | LW | 345 | 600 | D |  |
| July 5, 2011 | 4 | 1 | LW | 290 | 300 | D |  |
| July 5, 2011 | 4 | 1 | LW | 330 | 500 | D |  |
| July 5, 2011 | 4 | 1 | LW | 340 | 600 | D |  |
| July 5, 2011 | 4 | 1 | LW | 290 | 300 | D |  |
| July 5, 2011 | 4 | 1 | LW | 280 | 300 | D |  |
| July 5, 2011 | 4 | 1 | LW | 270 | 300 | D |  |
| July 5, 2011 | 4 | 1 | LW | 380 | 600 | D |  |
| July 5, 2011 | 4 | 1 | LW | 290 | 300 | D |  |
| July 5, 2011 | 4 | 1 | LW | 410 | 1100 | D |  |
| July 5, 2011 | 4 | 1 | LW | 330 | 500 | D |  |
| July 5, 2011 | 4 | 1 | LW | 310 | 400 | D |  |
| July 5, 2011 | 4 | 1 | LW | 350 | 700 | D |  |
| July 5, 2011 | 4 | 1 | LW | 300 | 400 | D |  |
| July 5, 2011 | 4 | 1 | LW | 360 | 700 | D |  |
| July 5, 2011 | 4 | 1 | LW | 300 | 400 | D |  |
| July 5, 2011 | 4 | 1 | LW | 300 | 400 | D |  |
| July 5, 2011 | 4 | 1 | LW | 320 | 400 | D |  |
| July 5, 2011 | 4 | 1 | LW | 305 | 400 | D |  |
| July 5, 2011 | 4 | 1 | LW | 280 | 250 | D |  |
| July 5, 2011 | 4 | 1 | LW | 335 | 500 | D |  |
| July 5, 2011 | 4 | 1 | LW | 260 | 250 | D |  |
| July 5, 2011 | 4 | 1 | LW | 300 | 400 | D |  |
| July 5, 2011 | 4 | 1 | LW | 300 | 400 | D |  |
| July 5, 2011 | 4 | 1 | LW | 300 | 400 | D |  |
| July 5, 2011 | 4 | 1 | LW | 360 | 700 | D |  |
| July 5, 2011 | 4 | 1 | LT | 760 | 6000 | R |  |
| July 5, 2011 | 4 | 1 | LT | 750 | 5250 | R |  |
| July 5, 2011 | 4 | 1 | LW | 365 | 600 | R |  |
| July 5, 2011 | 4 | 1 | LW | 390 | 850 | RP |  |
| July 5, 2011 | 4 | 1 | LW | 410 | 1000 | RP |  |
| July 5, 2011 | 4 | 1 | LW | 290 | 800 | RP |  |

[^1]Appendix 4 Continued

| Date | Effort (Set \#) | Stratum | ${ }^{4}$ Species | Fork Length (mm) | Weight <br> (g) | Fate | Sex |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| July 5, 2011 | 4 | 1 | LW | 320 | 400 | RP |  |
| July 5, 2011 | 4 | 1 | LW | 400 | 800 | RP |  |
| July 5, 2011 | 35 | 1 | LT | 650 | 3000 | D | M |
| July 5, 2011 | 35 | 1 | LW | NA | NA | D |  |
| July 5, 2011 | 35 | 1 | LW | NA | NA | D |  |
| July 5, 2011 | 35 | 1 | LW | NA | NA | D |  |
| July 5, 2011 | 35 | 1 | LW | NA | NA | D |  |
| July 5, 2011 | 35 | 1 | LW | NA | NA | D |  |
| July 5, 2011 | 35 | 1 | LW | 311 | NA | D |  |
| July 5, 2011 | 35 | 1 | LW | 294 | NA | D |  |
| July 5, 2011 | 35 | 1 | LW | 313 | NA | D |  |
| July 5, 2011 | 35 | 1 | LW | 313 | NA | D |  |
| July 5, 2011 | 35 | 1 | LW | 323 | NA | D |  |
| July 5, 2011 | 35 | 1 | LW | 295 | NA | D |  |
| July 5, 2011 | 35 | 1 | LW | NA | NA | D |  |
| July 5, 2011 | 35 | 1 | LW | 353 | NA | D |  |
| July 5, 2011 | 35 | 1 | LW | 321 |  | D |  |
| July 5, 2011 | 35 | 1 | LW | 289 |  | D |  |
| July 5, 2011 | 35 | 1 | LW | 289 |  | D |  |
| July 5, 2011 | 35 | 1 | LW | 303 |  | D |  |
| July 5, 2011 | 35 | 1 | LW | 314 |  | D |  |
| July 5, 2011 | 35 | 1 | LW | 296 |  | D |  |
| July 5, 2011 | 35 | 1 | LW | 325 |  | D |  |
| July 5, 2011 | 35 | 1 | LW | 352 |  | D |  |
| July 5, 2011 | 35 | 1 | LW | 320 |  | D |  |
| July 5, 2011 | 35 | 1 | LW | 380 |  | D |  |
| July 5, 2011 | 35 | 1 | LW | 281 |  | D |  |
| July 5, 2011 | 35 | 1 | LW | 316 |  | D |  |
| July 5, 2011 | 35 | 1 | LW | 329 |  | D |  |
| July 5, 2011 | 35 | 1 | LW | 331 |  | D |  |
| July 5, 2011 | 35 | 1 | LW | 308 |  | D |  |
| July 5, 2011 | 35 | 1 | LW | 275 |  | D |  |
| July 5, 2011 | 35 | 1 | LT | 699 | 4400 | R |  |
| July 5, 2011 | 35 | 1 | NP | 869 | 6200 | RP |  |
| July 5, 2011 | 36 | 2 | LW | 373 | 300 | D |  |
| July 5, 2011 | 36 | 2 | LW | 388 |  | D |  |
| July 5, 2011 | 36 | 2 | LW | 332 |  | D |  |

[^2]$\mathrm{R}=$ released; $\mathrm{RP}=$ released, poor condition; $\mathrm{D}=$ dead; $\mathrm{ESC}=$ escaped

Appendix 4 Continued

| Date | Effort (Set \#) | Stratum | ${ }^{5}$ Species | Fork Length (mm) | Weight <br> (g) | Fate | Sex |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| July 5, 2011 | 36 | 2 | LT | 637 | 3400 | R |  |
| July 5, 2011 | 36 | 2 | LT | 318 | 300 | RP |  |
| July 5, 2011 | 36 | 2 | LW | 295 |  | RP |  |
| July 5, 2011 | 36 | 2 | LW | 314 | 350 | RP |  |
| July 5, 2011 | 36 | 2 | LW | 378 | 700 | RP |  |
| July 5, 2011 | 36 | 2 | LW | 298 | 350 | RP |  |
| July 5, 2011 | 36 | 2 | LW | 323 | 400 | RP |  |
| July 5, 2011 | 36 | 2 | LW | 297 | 300 | RP |  |
| July 5, 2011 | 36 | 2 | LW | 324 | 400 | RP |  |
| July 5, 2011 | 36 | 2 | LW | 378 | 800 | RP |  |
| July 5, 2011 | 36 | 2 | LW | 295 | 350 | RP |  |
| July 5, 2011 | 36 | 2 | LW | 390 | 850 | RP |  |
| July 5, 2011 | 37 | 2 | LT | 736 | 4600 | D | M |
| July 5, 2011 | 37 | 2 | LT | 805 | 6350 | D | F |
| July 5, 2011 | 37 | 2 | LW | 387 | 800 | D |  |
| July 5, 2011 | 37 | 2 | LW | 317 |  | D |  |
| July 5, 2011 | 37 | 2 | LW | 343 |  | D |  |
| July 5, 2011 | 37 | 2 | LW | 307 |  | D |  |
| July 5, 2011 | 37 | 2 | LW | 339 |  | D |  |
| July 5, 2011 | 37 | 2 | LW | 301 |  | D |  |
| July 5, 2011 | 37 | 2 | LW | 295 |  | D |  |
| July 5, 2011 | 37 | 2 | LW | 330 |  | D |  |
| July 5, 2011 | 37 | 2 | LW | 320 |  | D |  |
| July 5, 2011 | 37 | 2 | LW | 312 |  | D |  |
| July 5, 2011 | 37 | 2 | LW | 331 |  | D |  |
| July 5, 2011 | 37 | 2 | LW | 283 |  | D |  |
| July 5, 2011 | 37 | 2 | LW | 354 |  | D |  |
| July 5, 2011 | 37 | 2 | LT | 813 | 7500 | R |  |
| July 5, 2011 | 37 | 2 | LT | 800 | 6850 | R |  |
| July 5, 2011 | 37 | 2 | LT | 836 | 7100 | R |  |
| July 5, 2011 | 37 | 2 | LW | 365 | 750 | R |  |
| July 5, 2011 | 37 | 2 | LW | 320 | 400 | RP |  |
| July 5, 2011 | 37 | 2 | LW | 306 | 350 | RP |  |
| July 5, 2011 | 37 | 2 | LW | 321 | 400 | RP |  |
| July 5, 2011 | 37 | 2 | LW | 330 | 425 | RP |  |
| July 5, 2011 | 38 | 1 | LW | 335 |  | D |  |
| July 5, 2011 | 38 | 1 | LW | 295 |  | D |  |

${ }^{5} \mathrm{LT}=$ lake trout; $\mathrm{LW}=$ round whitefish, $\mathrm{BB}=$ burbot, $\mathrm{NP}=$ northern pike
$\mathrm{R}=$ released; $\mathrm{RP}=$ released, poor condition; $\mathrm{D}=$ dead; $\mathrm{ESC}=$ escaped

Appendix 4 Continued

| Date | Effort (Set \#) | Stratum | ${ }^{6}$ Species | Fork Length (mm) | Weight (g) | Fate | Sex |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| July 5, 2011 | 38 | 1 | LW | 255 |  | D |  |
| July 5, 2011 | 38 | 1 | LW | 373 |  | D |  |
| July 5, 2011 | 38 | 1 | LW | 335 |  | D |  |
| July 5, 2011 | 38 | 1 | LW | 304 |  | D |  |
| July 5, 2011 | 38 | 1 | LW | 282 |  | D |  |
| July 5, 2011 | 38 | 1 | LW | 370 |  | D |  |
| July 5, 2011 | 38 | 1 | LW | 339 |  | D |  |
| July 5, 2011 | 38 | 1 | LW | 320 |  | D |  |
| July 5, 2011 | 38 | 1 | LW | 290 |  | D |  |
| July 5, 2011 | 38 | 1 | LW | 358 |  | D |  |
| July 5, 2011 | 38 | 1 | LW | 343 |  | D |  |
| July 5, 2011 | 38 | 1 | LW | 388 |  | D |  |
| July 5, 2011 | 38 | 1 | LW | 246 |  | D |  |
| July 5, 2011 | 38 | 1 | LW | 340 |  | D |  |
| July 5, 2011 | 38 | 1 | LW | 360 |  | D |  |
| July 5, 2011 | 38 | 1 | LW | 289 |  | D |  |
| July 5, 2011 | 38 | 1 | LW | 251 |  | D |  |
| July 5, 2011 | 38 | 1 | LW | 316 |  | D |  |
| July 5, 2011 | 38 | 1 | LW | 308 | 300 | R |  |
| July 5, 2011 | 38 | 1 | LW | 239 | 200 | R |  |
| July 5, 2011 | 38 | 1 | LW | 301 | 300 | RP |  |
| July 5, 2011 | 38 | 1 | LW | 292 | 300 | RP |  |
| July 5, 2011 | 38 | 1 | LW | 287 | 300 | RP |  |
| July 5, 2011 | 38 | 1 | LW | 300 | 300 | RP |  |
| July 5, 2011 | 38 | 1 | LW | 272 | 250 | RP |  |
| July 5, 2011 | 38 | 1 | LW | 312 | 300 | RP |  |
| July 5, 2011 | 38 | 1 | LW | 255 | 225 | RP |  |
| July 5, 2011 | 38 | 1 | LW | 300 | 350 | RP |  |
| July 5, 2011 | 38 | 1 | LW | 295 | 300 | RP |  |
| July 5, 2011 | 38 | 1 | LW | 352 | 450 | RP |  |
| July 5, 2011 | 38 | 1 | LW | 348 | 550 | RP |  |
| July 5, 2011 | 38 | 1 | LW | 362 | 800 | RP |  |
| July 5, 2011 | 38 | 1 | LW | 317 | 450 | RP |  |
| July 5, 2011 | 38 | 1 | LW | 302 | 300 | RP |  |
| July 6, 2011 | 5 | 3 | LW | 310 | 350 | D | M |
| July 6, 2011 | 5 | 3 | LW | 365 | 700 | D | F |
| July 6, 2011 | 5 | 3 | LW | 320 | 350 | D | M |

${ }^{6} \mathrm{LT}=$ lake trout; $\mathrm{LW}=$ round whitefish, $\mathrm{BB}=$ burbot, $\mathrm{NP}=$ northern pike
$\mathrm{R}=$ released; RP=released, poor condition; $\mathrm{D}=$ dead; $\mathrm{ESC}=$ escaped

Appendix 4 Continued

| Date | Effort (Set \#) | Stratum | ${ }^{7}$ Species | Fork Length (mm) | Weight (g) | Fate | Sex |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| July 6, 2011 | 5 | 3 | LW | 290 | 300 | D | F |
| July 6, 2011 | 5 | 3 | LW | 390 | 800 | D | M |
| July 6, 2011 | 5 | 3 | LW | 380 | 800 | D | F |
| July 6, 2011 | 5 | 3 | LW | 365 | 600 | D | M |
| July 6, 2011 | 5 | 3 | LW | 370 | 650 | D | F |
| July 6, 2011 | 5 | 3 | LW | 310 | 450 | D | M |
| July 6, 2011 | 5 | 3 | LW | 365 | 600 | D | F |
| July 6, 2011 | 5 | 3 | LW | 305 | 400 | D | F |
| July 6, 2011 | 6 | 5 | No Catch |  |  |  |  |
| July 6, 2011 | 7 | 4 | No Catch |  |  |  |  |
| July 6, 2011 | 8 | 5 | No Catch |  |  |  |  |
| July 6, 2011 | 9 | 4 | No Catch |  |  |  |  |
| July 6, 2011 | 10 | 3 | LW | 385 | 800 | D | F |
| July 6, 2011 | 10 | 3 | LW | 375 | 800 | D | M |
| July 6, 2011 | 10 | 3 | LW | 410 | 1000 | D | F |
| July 6, 2011 | 10 | 3 | LW | 370 | 700 | D | F |
| July 6, 2011 | 10 | 3 | LW | 340 | 650 | D | F |
| July 6, 2011 | 10 | 3 | LW | 335 | 500 | D | M |
| July 6, 2011 | 10 | 3 | LW | 340 | 550 | RP |  |
| July 6, 2011 | 11 | 5 | No Catch |  |  |  |  |
| July 6, 2011 | 12 | 5 | No Catch |  |  |  |  |
| July 6, 2011 | 13 | 4 | LT | 590 | 2500 | D | F |
| July 6, 2011 | 13 | 4 | LT | 350 | 450 | D | M |
| July 6, 2011 | 14 | 3 | LT | 350 | 400 | RP |  |
| July 6, 2011 | 14 | 3 | LW | 355 | 500 | RP |  |
| July 6, 2011 | 39 | 4 | LT | 782 | 5650 | D | F |
| July 6, 2011 | 39 | 4 | LT | 757 | 4900 | R |  |
| July 6, 2011 | 40 | 3 | LW | 400 | 1000 | D | F |
| July 6, 2011 | 40 | 3 | LW | 365 | 800 | D | M |
| July 6, 2011 | 40 | 3 | LW | 365 | 700 | D |  |
| July 6, 2011 | 40 | 3 | LW | 300 | 350 | D | F |
| July 6, 2011 | 40 | 3 | LW | 325 | 400 | D | F |
| July 6, 2011 | 40 | 3 | LW | 365 | 700 | D | M |
| July 6, 2011 | 40 | 3 | LT | 725 | 5000 | R |  |
| July 6, 2011 | 40 | 3 | LW | 345 | 650 | RP |  |
| July 6, 2011 | 40 | 3 | LW | 370 | 750 | RP |  |
| July 6, 2011 | 40 | 3 | LW | 275 | 300 | RP |  |

${ }^{7} \mathrm{LT}=$ lake trout; $\mathrm{LW}=$ round whitefish, $\mathrm{BB}=$ burbot, $\mathrm{NP}=$ northern pike
$\mathrm{R}=$ released; $\mathrm{RP}=$ released, poor condition; $\mathrm{D}=$ dead; $\mathrm{ESC}=$ escaped

Appendix 4 Continued

| Date | Effort (Set \#) | Stratum | ${ }^{8}$ Species | Fork Length (mm) | Weight <br> (g) | Fate | Sex |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| July 6, 2011 | 40 | 3 | LW | 349 | 650 | RP |  |
| July 6, 2011 | 40 | 3 | LW | 374 | 750 | RP |  |
| July 6, 2011 | 40 | 3 | LW | 385 | 300 | RP |  |
| July 6, 2011 | 41 | 5 | No Catch |  |  |  |  |
| July 6, 2011 | 42 | 4 | No Catch |  |  |  |  |
| July 6, 2011 | 43 | 4 | No Catch |  |  |  |  |
| July 6, 2011 | 44 | 5 | No Catch |  |  |  |  |
| July 6, 2011 | 45 | 4 | LT | 545 | 1800 | R |  |
| July 6, 2011 | 45 | 4 | LW | 365 | 600 | R |  |
| July 6, 2011 | 46 | 1 | LW | 286 | 300 | D | F |
| July 6, 2011 | 46 | 1 | LW | 287 | 300 | D | M |
| July 6, 2011 | 46 | 1 | LW | 402 | 900 | D | M |
| July 6, 2011 | 46 | 1 | LW | 307 | 400 | D | F |
| July 6, 2011 | 46 | 1 | LW | 310 | 350 | D | M |
| July 6, 2011 | 46 | 1 | LW | 331 | 500 | D | F |
| July 6, 2011 | 46 | 1 | LW | 382 | 650 | D | F |
| July 6, 2011 | 46 | 1 | LW | 338 | 500 | D | F |
| July 6, 2011 | 46 | 1 | LW | 284 | 300 | D | F |
| July 6, 2011 | 46 | 1 | LW | 325 | 400 | D |  |
| July 6, 2011 | 46 | 1 | LW | 300 | 300 | D |  |
| July 6, 2011 | 46 | 1 | LW | 275 | 250 | D |  |
| July 6, 2011 | 46 | 1 | LW | 360 | 650 | D |  |
| July 6, 2011 | 46 | 1 | LW | 385 | 900 | D |  |
| July 6, 2011 | 46 | 1 | LW | 365 | 700 | D |  |
| July 6, 2011 | 46 | 1 | LW | 420 | 1050 | D |  |
| July 6, 2011 | 46 | 1 | LW | 290 | 250 | D |  |
| July 6, 2011 | 46 | 1 | LW | 320 | 350 | D |  |
| July 6, 2011 | 46 | 1 | LW | 315 | 400 | D |  |
| July 6, 2011 | 46 | 1 | LW | 290 | 300 | D |  |
| July 6, 2011 | 46 | 1 | LW | 338 | 550 | D | F |
| July 6, 2011 | 46 | 1 | LW | 300 | 350 | R |  |
| July 6, 2011 | 46 | 1 | LW | 398 | 1000 | R |  |
| July 6, 2011 | 46 | 1 | LT | 534 | 1650 | RP |  |
| July 6, 2011 | 46 | 1 | LW | 312 | 350 | RP |  |
| July 6, 2011 | 46 | 1 | LW | 324 | 400 | RP |  |
| July 6, 2011 | 46 | 1 | LW | 470 | 1550 | RP |  |
| July 6, 2011 | 46 | 1 | LW | 312 | 400 | RP |  |

${ }^{8} \mathrm{LT}=$ lake trout; $\mathrm{LW}=$ round whitefish, $\mathrm{BB}=$ burbot, $\mathrm{NP}=$ northern pike
$\mathrm{R}=$ released; $\mathrm{RP}=$ released, poor condition; $\mathrm{D}=$ dead; $\mathrm{ESC}=$ escaped

Appendix 4 Continued

| Date | Effort (Set \#) | Stratum | ${ }^{9}$ Species | Fork Length (mm) | Weight <br> (g) | Fate | Sex |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| July 6, 2011 | 46 | 1 | LW | 388 | 800 | RP |  |
| July 6, 2011 | 46 | 1 | LW | 300 | 350 | RP |  |
| July 6, 2011 | 46 | 1 | LW | 283 | 350 | RP |  |
| July 6, 2011 | 46 | 1 | LW | 295 | 300 | RP |  |
| July 6, 2011 | 46 | 1 | LW | 290 | 300 | RP |  |
| July 6, 2011 | 46 | 1 | LW | 340 | 500 | RP |  |
| July 6, 2011 | 46 | 1 | LW | 311 | 400 | RP |  |
| July 6, 2011 | 46 | 1 | LW | 389 | 800 | RP |  |
| July 6, 2011 | 46 | 1 | LW | 345 | 600 | RP |  |
| July 6, 2011 | 46 | 1 | LW | 300 | 400 | RP |  |
| July 6, 2011 | 46 | 1 | LW | 320 | 500 | RP |  |
| July 6, 2011 | 46 | 1 | LW | 365 | 600 | RP |  |
| July 6, 2011 | 47 | 5 | No Catch |  |  |  |  |
| July 7, 2011 | 15 | 4 | No Catch |  |  |  |  |
| July 7, 2011 | 16 | 2 | LT | 660 | 3500 | D | F |
| July 7, 2011 | 16 | 2 | LW | 335 | 500 | D | M |
| July 7, 2011 | 16 | 2 | LW | 300 | 300 | D | M |
| July 7, 2011 | 16 | 2 | LW | 390 | 750 | D | F |
| July 7, 2011 | 16 | 2 | LW | 380 | 800 | D | F |
| July 7, 2011 | 16 | 2 | LW | 300 | 350 | D | M |
| July 7, 2011 | 16 | 2 | LW |  |  | D | F |
| July 7, 2011 | 16 | 2 | LW | 310 | 400 | D | M |
| July 7, 2011 | 16 | 2 | LW | 385 | 800 | D | M |
| July 7, 2011 | 16 | 2 | LW | 390 | 850 | D | F |
| July 7, 2011 | 16 | 2 | LW | 300 | 300 | D | F |
| July 7, 2011 | 16 | 2 | LT | 660 | 3600 | R |  |
| July 7, 2011 | 16 | 2 | LT | 750 | 5600 | R |  |
| July 7, 2011 | 16 | 2 | LT | 330 | 350 | R |  |
| July 7, 2011 | 16 | 2 | LW | 420 | 1050 | RP |  |
| July 7, 2011 | 16 | 2 | LW | 310 | 400 | RP |  |
| July 7, 2011 | 16 | 2 | LW | 335 | 550 | RP |  |
| July 7, 2011 | 16 | 2 | LW | 310 | 400 | RP |  |
| July 7, 2011 | 16 | 2 | LW | 345 | 550 | RP |  |
| July 7, 2011 | 16 | 2 | LW | 330 | 450 | RP |  |
| July 7, 2011 | 16 | 2 | LW | 365 | 550 | RP |  |
| July 7, 2011 | 17 | 4 | No Catch |  |  |  |  |
| July 7, 2011 | 18 | 2 | LW | 310 | 350 | D | M |

[^3]$\mathrm{R}=$ released; $\mathrm{RP}=$ released, poor condition; $\mathrm{D}=$ dead; $\mathrm{ESC}=$ escaped

Appendix 4 Continued

| Date | Effort (Set \#) | Stratum | ${ }^{10}$ Species | Fork Length (mm) | Weight <br> (g) | Fate | Sex |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| July 7, 2011 | 18 | 2 | LT | 785 | 7200 | R |  |
| July 7, 2011 | 18 | 2 | LW | 310 | 400 | R |  |
| July 7, 2011 | 18 | 2 | LW | 350 | 550 | R |  |
| July 7, 2011 | 19 | 3 | LT | 355 | 450 | D | M |
| July 7, 2011 | 19 | 3 | LT | 590 | 2300 | R |  |
| July 7, 2011 | 19 | 3 | LW | 300 | 300 | RP |  |
| July 7, 2011 | 19 | 3 | LW | 345 | 650 | RP |  |
| July 7, 2011 | 19 | 3 | LW | 220 | 200 | RP |  |
| July 7, 2011 | 19 | 3 | LW | 365 | 800 | RP |  |
| July 7, 2011 | 19 | 3 | LW | 330 | 450 | RP |  |
| July 7, 2011 | 20 | 4 | No Catch |  |  |  |  |
| July 7, 2011 | 21 | 3 | LW | 360 | 650 | RP |  |
| July 7, 2011 | 21 | 3 | LW | 385 | 750 | RP |  |
| July 7, 2011 | 22 | 3 | LW | 300 | 310 | D | F |
| July 7, 2011 | 22 | 3 | LW | 355 | 750 | D | F |
| July 7, 2011 | 22 | 3 | LW | 330 | 450 | D | F |
| July 7, 2011 | 22 | 3 | LW | 300 | 350 | D | M |
| July 7, 2011 | 22 | 3 | LW | 350 | 550 | D | F |
| July 7, 2011 | 22 | 3 | LW | 320 | NA | D | M |
| July 7, 2011 | 22 | 3 | LW | 325 | 500 | RP |  |
| July 7, 2011 | 22 | 3 | LW | 300 | 400 | RP |  |
| July 7, 2011 | 22 | 3 | LW | 380 | 650 | RP |  |
| July 7, 2011 | 22 | 3 | LW | 305 | 300 | RP |  |
| July 7, 2011 | 22 | 3 | LW | 395 | 300 | RP |  |
| July 7, 2011 | 22 | 3 | LW | 350 | 600 | RP |  |
| July 7, 2011 | 22 | 3 | LW | 395 | 950 | RP |  |
| July 7, 2011 | 22 | 3 | LW | 350 | 200 | RP |  |
| July 7, 2011 | 22 | 3 | LW | 360 | 750 | RP |  |
| July 7, 2011 | 22 | 3 | LW | 390 | 1000 | RP |  |
| July 7, 2011 | 23 | 3 | LW | NA | NA | D |  |
| July 7, 2011 | 23 | 3 | LW | NA | NA | D |  |
| July 7, 2011 | 23 | 3 | LW | 315 | 450 | D |  |
| July 7, 2011 | 23 | 3 | LW | 310 | 350 | D |  |
| July 7, 2011 | 23 | 3 | LW | 340 | 550 | D |  |
| July 7, 2011 | 23 | 3 | LW | 335 | 400 | RP |  |
| July 7, 2011 | 23 | 3 | LW | 395 | 700 | RP |  |
| July 7, 2011 | 23 | 3 | LW | 370 | 600 | RP |  |

${ }^{10} \mathrm{LT}=$ lake trout; $\mathrm{LW}=$ round whitefish, $\mathrm{BB}=$ burbot, $\mathrm{NP}=$ northern pike
R=released; RP=released, poor condition; D=dead; ESC=escaped

Appendix 4 Continued

| Date | Effort (Set \#) | Stratum | 11Species | Fork Length (mm) | Weight <br> (g) | Fate | Sex |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| July 7, 2011 | 23 | 3 | LW | 370 | 650 | RP |  |
| July 7, 2011 | 23 | 3 | LW | 305 | 300 | RP |  |
| July 7, 2011 | 23 | 3 | LW | 390 | 700 | RP |  |
| July 7, 2011 | 24 | 1 | LT | 340 | 3000 | D | F |
| July 7, 2011 | 24 | 1 | LW | 330 | 450 | D |  |
| July 7, 2011 | 24 | 1 | LW | 305 | 300 | D |  |
| July 7, 2011 | 24 | 1 | LW | 290 | 300 | D |  |
| July 7, 2011 | 24 | 1 | LW | 360 | 650 | D |  |
| July 7, 2011 | 24 | 1 | LW | 320 | 400 | D |  |
| July 7, 2011 | 24 | 1 | LW | 300 | 300 | D |  |
| July 7, 2011 | 24 | 1 | LW | 345 | 550 | D |  |
| July 7, 2011 | 24 | 1 | LW | 340 | 550 | D |  |
| July 7, 2011 | 24 | 1 | LW | 350 | 650 | D |  |
| July 7, 2011 | 24 | 1 | LW | 310 | 350 | D |  |
| July 7, 2011 | 24 | 1 | LW | 295 | 300 | D |  |
| July 7, 2011 | 24 | 1 | LW | 345 | 550 | D |  |
| July 7, 2011 | 24 | 1 | LW | 350 | 500 | D |  |
| July 7, 2011 | 24 | 1 | LW | 305 | 300 | D |  |
| July 7, 2011 | 24 | 1 | LW | 340 | 500 | D |  |
| July 7, 2011 | 24 | 1 | LW | 310 | 400 | D |  |
| July 7, 2011 | 24 | 1 | LW | 350 | 550 | D |  |
| July 7, 2011 | 24 | 1 | LW | 310 | 400 | D |  |
| July 7, 2011 | 24 | 1 | LW | 315 | 400 | D |  |
| July 7, 2011 | 24 | 1 | LW | 285 | 250 | D |  |
| July 7, 2011 | 24 | 1 | LW | 320 | 450 | D |  |
| July 7, 2011 | 24 | 1 | LW | 305 | 300 | D |  |
| July 7, 2011 | 24 | 1 | LW | 350 | 450 | D |  |
| July 7, 2011 | 24 | 1 | LW | 345 | 500 | D |  |
| July 7, 2011 | 24 | 1 | LW | 315 | 450 | D |  |
| July 7, 2011 | 24 | 1 | LW | 290 | 300 | D |  |
| July 7, 2011 | 24 | 1 | LW | 350 | 650 | D |  |
| July 7, 2011 | 24 | 1 | LW | 292 | 350 | D |  |
| July 7, 2011 | 24 | 1 | LT | 750 | 5200 | RP |  |
| July 7, 2011 | 24 | 1 | LW | 395 | 950 | RP |  |
| July 7, 2011 | 24 | 1 | LW |  |  | RP |  |
| July 7, 2011 | 24 | 1 | LW | 340 | 600 | RP |  |

${ }^{11} \mathrm{LT}=$ lake trout; $\mathrm{LW}=$ round whitefish, $\mathrm{BB}=$ burbot, $\mathrm{NP}=$ northern pike $\mathrm{R}=$ released; $\mathrm{RP}=$ released, poor condition; $\mathrm{D}=$ dead; $\mathrm{ESC}=$ escaped

Appendix 4 Continued

| Date | Effort (Set \#) | Stratum | 12Species | Fork Length (mm) | Weight <br> (g) | Fate | Sex |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| July 7, 2011 | 25 | 2 | No Catch |  |  |  |  |
| July 7, 2011 | 26 | 2 | LT | 640 | 3100 | R |  |
| July 7, 2011 | 26 | 2 | LT | 845 | 6850 | R |  |
| July 7, 2011 | 26 | 2 | LW | 290 | 300 | RP |  |
| July 7, 2011 | 26 | 2 | LW | 305 | 300 | RP |  |
| July 7, 2011 | 26 | 2 | LW | 305 | 300 | RP |  |
| July 7, 2011 | 26 | 2 | LW | 275 | 250 | RP |  |
| July 7, 2011 | 26 | 2 | LW | 310 | 400 | RP |  |
| July 7, 2011 | 26 | 2 | LW | 290 | 350 | RP |  |
| July 7, 2011 | 26 | 2 | LW | 280 | 250 | RP |  |
| July 7, 2011 | 26 | 2 | LW | 290 | 300 | RP |  |
| July 7, 2011 | 48 | 5 | No Catch |  |  |  |  |
| July 7, 2011 | 49 | 2 | LW | 395 | 800 | D | M |
| July 7, 2011 | 49 | 2 | LT | 596 | 2650 | D | F |
| July 7, 2011 | 49 | 2 | LT | 412 | 800 | R |  |
| July 7, 2011 | 49 | 2 | LT | 770 | 5300 | R |  |
| July 7, 2011 | 49 | 2 | LT | 788 | 4950 | R |  |
| July 7, 2011 | 49 | 2 | LT | 774 | 5400 | RP |  |
| July 7, 2011 | 49 | 2 | LW | 315 | 400 | RP |  |
| July 7, 2011 | 50 | 4 | LW | 310 | 400 | D | M |
| July 7, 2011 | 50 | 4 | LW | 333 | 500 | D | M |
| July 7, 2011 | 50 | 4 | LW | 285 | 250 | RP |  |
| July 7, 2011 | 51 | 5 | No Catch |  |  |  |  |
| July 7, 2011 | 52 | 3 | LW | 394 | 850 | D | F |
| July 7, 2011 | 52 | 3 | LW | 313 | 400 | D |  |
| July 7, 2011 | 52 | 3 | LW | 400 | 900 | D |  |
| July 7, 2011 | 52 | 3 | LW | 341 | 550 | D |  |
| July 7, 2011 | 52 | 3 | LW | 367 | 700 | D |  |
| July 7, 2011 | 52 | 3 | LW | 335 | 500 | D |  |
| July 7, 2011 | 52 | 3 | LW | 300 | 350 | R |  |
| July 7, 2011 | 52 | 3 | LT | 775 | 5900 | RP |  |
| July 7, 2011 | 52 | 3 | LW | 369 | 700 | RP |  |
| July 7, 2011 | 52 | 3 | LW | 375 | 800 | RP |  |
| July 7, 2011 | 52 | 3 | LW | 417 | 950 | RP |  |
| July 7, 2011 | 52 | 3 | LW | 357 | 600 | RP |  |
| July 7, 2011 | 52 | 3 | LW | 293 | 300 | RP |  |

${ }^{12} \mathrm{LT}=$ lake trout; $\mathrm{LW}=$ round whitefish, $\mathrm{BB}=$ burbot, $\mathrm{NP}=$ northern pike R=released; RP=released, poor condition; D=dead; ESC=escaped

Appendix 4 Continued

| Date | Effort (Set \#) | Stratum | 13Species | Fork Length (mm) | Weight <br> (g) | Fate | Sex |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| July 7, 2011 | 53 | 3 | LW | 311 | 300 | RP |  |
| July 7, 2011 | 53 | 3 | LW | 291 | 375 | RP |  |
| July 7, 2011 | 53 | 3 | LW | 298 | 350 | RP |  |
| July 7, 2011 | 54 | 3 | LW | 411 | 850 | D |  |
| July 7, 2011 | 54 | 3 | LW | 368 | 700 | D |  |
| July 7, 2011 | 54 | 3 | LW | 290 | 350 | D |  |
| July 7, 2011 | 54 | 3 | LW | 358 | 850 | D |  |
| July 7, 2011 | 54 | 3 | LW | 275 | 291 | D |  |
| July 7, 2011 | 54 | 3 | LT | 728 | 4000 | R |  |
| July 7, 2011 | 54 | 3 | LT | 798 | 5200 | R |  |
| July 7, 2011 | 54 | 3 | LT | 645 | 3150 | RP |  |
| July 7, 2011 | 54 | 3 | LT | 488 | 1450 | RP |  |
| July 7, 2011 | 54 | 3 | LT | 725 | 5150 | RP |  |
| July 7, 2011 | 54 | 3 | LW | 333 | 650 | RP |  |
| July 7, 2011 | 54 | 3 | LW | 305 | 400 | RP |  |
| July 7, 2011 | 54 | 3 | LW | 375 | 800 | RP |  |
| July 7, 2011 | 54 | 3 | LW | 398 | 900 | RP |  |
| July 7, 2011 | 55 | 4 | No Catch |  |  |  |  |
| July 7, 2011 | 56 | 3 | LW | NA | NA | D |  |
| July 7, 2011 | 57 | 1 | LT | 779 | 6000 | D | F |
| July 7, 2011 | 57 | 1 | LW | 369 | 800 | D | M |
| July 7, 2011 | 57 | 1 | LW | 290 | 300 | D | M |
| July 7, 2011 | 57 | 1 | LW | 286 | 275 | D | M |
| July 7, 2011 | 57 | 1 | LW | 402 | 950 | D | F |
| July 7, 2011 | 57 | 1 | LW | 295 | 350 | D |  |
| July 7, 2011 | 57 | 1 | LW | 352 | 550 | D | F |
| July 7, 2011 | 57 | 1 | LW | 281 | 300 | D | F |
| July 7, 2011 | 57 | 1 | LW | 325 | 500 | D | M |
| July 7, 2011 | 57 | 1 | LW | 390 | 950 | D |  |
| July 7, 2011 | 57 | 1 | LW | 375 | 800 | D |  |
| July 7, 2011 | 57 | 1 | LW | 309 | 400 | D |  |
| July 7, 2011 | 57 | 1 | LW | 317 | 450 | D |  |
| July 7, 2011 | 57 | 1 | LW | 335 | 500 | D |  |
| July 7, 2011 | 57 | 1 | LW | 288 | 300 | D |  |
| July 7, 2011 | 57 | 1 | LW | 333 | 450 | D |  |
| July 7, 2011 | 57 | 1 | LW | 398 | 900 | D |  |
| July 7, 2011 | 57 | 1 | LW | 392 | 850 | D |  |

${ }^{13} \mathrm{LT}=$ lake trout; $\mathrm{LW}=$ round whitefish, $\mathrm{BB}=$ burbot, $\mathrm{NP}=$ northern pike R=released; RP=released, poor condition; D=dead; ESC=escaped

Appendix 4 Continued

| Date | Effort (Set \#) | Stratum | 14Species | Fork Length (mm) | Weight <br> (g) | Fate | Sex |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| July 7, 2011 | 57 | 1 | LW | 325 | 500 | D |  |
| July 7, 2011 | 57 | 1 | LW | 298 | 325 | D |  |
| July 7, 2011 | 57 | 1 | LW | 304 | 350 | D |  |
| July 7, 2011 | 57 | 1 | LW | 282 | 350 | D |  |
| July 7, 2011 | 57 | 1 | LW | 331 | 500 | D |  |
| July 7, 2011 | 57 | 1 | LT | 746 | 5200 | R |  |
| July 7, 2011 | 57 | 1 | LT | 735 | 6150 | R |  |
| July 7, 2011 | 57 | 1 | LW | 308 | 400 | RP |  |
| July 7, 2011 | 57 | 1 | LW | 309 | 450 | RP |  |
| July 7, 2011 | 57 | 1 | LW | 287 | 300 | RP |  |
| July 7, 2011 | 57 | 1 | LW | 346 | 600 | RP |  |
| July 7, 2011 | 57 | 1 | LW | 286 | 350 | RP |  |
| July 7, 2011 | 57 | 1 | LW | 246 | 250 | RP |  |
| July 8, 2011 | 27 | 3 | LW | 330 | 500 | D | M |
| July 8, 2011 | 27 | 3 | LW | 380 | 800 | D | M |
| July 8, 2011 | 27 | 3 | LW | 310 | 800 | D | M |
| July 8, 2011 | 27 | 3 | LW | 365 | 700 | D | F |
| July 8, 2011 | 27 | 3 | LW | 320 | 350 | D | F |
| July 8, 2011 | 27 | 3 | LW | 340 | 500 | R |  |
| July 8, 2011 | 27 | 3 | BB | 510 | 1800 | RP |  |
| July 8, 2011 | 27 | 3 | LW | 315 | 450 | RP |  |
| July 8, 2011 | 27 | 3 | LW | 390 | 300 | RP |  |
| July 8, 2011 | 27 | 3 | LW | 360 | 550 | RP |  |
| July 8, 2011 | 27 | 3 | LW | 350 | 350 | RP |  |
| July 8, 2011 | 28 | 2 | LW | 390 | 800 | RP |  |
| July 8, 2011 | 29 | 1 | LW | 355 | 650 | D | M |
| July 8, 2011 | 29 | 1 | LW |  |  | D | M |
| July 8, 2011 | 29 | 1 | LW | 320 | 350 | D | F |
| July 8, 2011 | 29 | 1 | LW | 380 | 750 | D | M |
| July 8, 2011 | 29 | 1 | LW | 305 | 350 | D | M |
| July 8, 2011 | 29 | 1 | LW | 290 | 300 | D | F |
| July 8, 2011 | 29 | 1 | LW | 315 | 350 | D | F |
| July 8, 2011 | 29 | 1 | LW | 430 | 1100 | D | F |
| July 8, 2011 | 29 | 1 | LW | 325 | 500 | D | M |
| July 8, 2011 | 29 | 1 | LW | 360 | 550 | D | F |
| July 8, 2011 | 29 | 1 | LW |  |  | D | M |
| July 8, 2011 | 29 | 1 | LW | 390 | 100 | D | F |

${ }^{14} \mathrm{LT}=$ lake trout; $\mathrm{LW}=$ round whitefish, $\mathrm{BB}=$ burbot, $\mathrm{NP}=$ northern pike
$\mathrm{R}=$ released; $\mathrm{RP}=$ released, poor condition; $\mathrm{D}=$ dead; $\mathrm{ESC}=$ escaped

Appendix 4 Continued

| Date | Effort (Set \#) | Stratum | 15Species | Fork Length (mm) | Weight <br> (g) | Fate | Sex |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| July 8, 2011 | 29 | 1 | LW | 295 | 300 | D | F |
| July 8, 2011 | 29 | 1 | LW | 295 | 300 | D | M |
| July 8, 2011 | 29 | 1 | LW | 295 | 300 | D | F |
| July 8, 2011 | 29 | 1 | LW | 350 | 600 | D | F |
| July 8, 2011 | 29 | 1 | LT | 795 | 5800 | R |  |
| July 8, 2011 | 29 | 1 | LW | 340 | 550 | R |  |
| July 8, 2011 | 29 | 1 | LW | 340 | 500 | R |  |
| July 8, 2011 | 29 | 1 | LW | 335 | 500 | R |  |
| July 8, 2011 | 29 | 1 | LW | 310 | 500 | R |  |
| July 8, 2011 | 29 | 1 | LW | 295 | 350 | R |  |
| July 8, 2011 | 29 | 1 | LW | 350 | 500 | RP |  |
| July 8, 2011 | 29 | 1 | LW | 310 | 450 | RP |  |
| July 8, 2011 | 29 | 1 | LW | 310 | 450 | RP |  |
| July 8, 2011 | 29 | 1 | LW | 340 | 450 | RP |  |
| July 8, 2011 | 29 | 1 | LW | 280 | 300 | RP |  |
| July 8, 2011 | 29 | 1 | LW | 380 | 800 | RP |  |
| July 8, 2011 | 29 | 1 | LW | 350 | 500 | RP |  |
| July 8, 2011 | 29 | 1 | LW | 480 | 690 | RP |  |
| July 8, 2011 | 29 | 1 | LW | 280 | 250 | RP |  |
| July 8, 2011 | 29 | 1 | LW | 330 | 500 | RP |  |
| July 8, 2011 | 29 | 1 | LW | 290 | 320 | RP |  |
| July 8, 2011 | 29 | 1 | LW | 370 | 900 | RP |  |
| July 8, 2011 | 29 | 1 | LW | 450 | 1000 | RP |  |
| July 8, 2011 | 30 | 1 | LW | 380 | 800 | D | F |
| July 8, 2011 | 30 | 1 | LW | 375 | 750 | D | F |
| July 8, 2011 | 30 | 1 | LW | 370 | 750 | D | F |
| July 8, 2011 | 30 | 1 | LW | 340 | 600 | D | F |
| July 8, 2011 | 30 | 1 | LW | 310 | 350 | D | M |
| July 8, 2011 | 30 | 1 | LT | 830 | 6900 | R |  |
| July 8, 2011 | 30 | 1 | LT | 780 | 5000 | R |  |
| July 8, 2011 | 30 | 1 | LW | 290 | 350 | R |  |
| July 8, 2011 | 30 | 1 | LW | 410 | 1000 | R |  |
| July 8, 2011 | 30 | 1 | LW | 390 | 1000 | R |  |
| July 8, 2011 | 30 | 1 | LW | 380 | 600 | R |  |
| July 8, 2011 | 30 | 1 | LW | 295 | 350 | R |  |
| July 8, 2011 | 30 | 1 | LT | 390 | 800 | RP |  |
| July 8, 2011 | 30 | 1 | LW | 415 | 1050 | RP |  |

${ }^{15} \mathrm{LT}=$ lake trout; $\mathrm{LW}=$ round whitefish, $\mathrm{BB}=$ burbot, $\mathrm{NP}=$ northern pike
$\mathrm{R}=$ released; $\mathrm{RP}=$ released, poor condition; $\mathrm{D}=$ dead; $\mathrm{ESC}=$ escaped

Appendix 4 Continued

| Date | Effort (Set \#) | Stratum | 16Species | Fork Length (mm) | Weight <br> (g) | Fate | Sex |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| July 8, 2011 | 30 | 1 | LW | 330 | 550 | RP |  |
| July 8, 2011 | 30 | 1 | LW | 290 | 500 | RP |  |
| July 8, 2011 | 30 | 1 | LW | 390 | 1000 | RP |  |
| July 8, 2011 | 30 | 1 | LW | 360 | 660 | RP |  |
| July 8, 2011 | 31 | 2 | LW | 285 | 200 | D | M |
| July 8, 2011 | 31 | 2 | LW | 365 | 600 | D | M |
| July 8, 2011 | 31 | 2 | LW | NA | NA | ESC |  |
| July 8, 2011 | 31 | 2 | LW | 390 | 600 | R |  |
| July 8, 2011 | 31 | 2 | LW | 350 | 500 | R |  |
| July 8, 2011 | 31 | 2 | LW | 360 | 500 | R |  |
| July 8, 2011 | 31 | 2 | LW | 380 | 900 | R |  |
| July 8, 2011 | 31 | 2 | LW | 310 | 450 | R |  |
| July 8, 2011 | 31 | 2 | LW | 350 | 500 | RP |  |
| July 8, 2011 | 31 | 2 | LW | 380 | 700 | RP |  |
| July 8, 2011 | 31 | 2 | LW | 390 | 700 | RP |  |
| July 8, 2011 | 31 | 2 | LW | 350 | 500 | RP |  |
| July 8, 2011 | 31 | 2 | LW | 365 | 900 | RP |  |
| July 8, 2011 | 31 | 2 | LW | 365 | 900 | RP |  |
| July 8, 2011 | 31 | 2 | LW | 340 | 500 | RP |  |
| July 8, 2011 | 31 | 2 | LW | 365 | 900 | RP |  |
| July 8, 2011 | 32 | 2 | LW | 355 | 650 | D | M |
| July 8, 2011 | 32 | 2 | LW | 340 | 850 | D | F |
| July 8, 2011 | 32 | 2 | LT | 530 | 2000 | R |  |
| July 8, 2011 | 32 | 2 | LT | 870 | 8500 | R |  |
| July 8, 2011 | 32 | 2 | LW | 310 | 500 | R |  |
| July 8, 2011 | 32 | 2 | LW | 300 | 400 | R |  |
| July 8, 2011 | 32 | 2 | LW | 310 | 500 | RP |  |
| July 8, 2011 | 32 | 2 | LW | 380 | 900 | RP |  |
| July 8, 2011 | 32 | 2 | LW | 360 | 700 | RP |  |
| July 8, 2011 | 33 | 1 | LW | 340 | 550 | D | M |
| July 8, 2011 | 33 | 1 | LW | 320 | 400 | D | F |
| July 8, 2011 | 33 | 1 | LW | 320 | 400 | D | F |
| July 8, 2011 | 33 | 1 | LW | 240 | 300 | D | F |
| July 8, 2011 | 33 | 1 | LW | 305 | 300 | D | M |
| July 8, 2011 | 33 | 1 | LW | 325 | 450 | D | F |
| July 8, 2011 | 33 | 1 | LW | 360 | 650 | D | F |
| July 8, 2011 | 33 | 1 | LW | 285 | 300 | D | F |

${ }^{16} \mathrm{LT}=$ lake trout; $\mathrm{LW}=$ round whitefish, $\mathrm{BB}=$ burbot, $\mathrm{NP}=$ northern pike
$\mathrm{R}=$ released; $\mathrm{RP}=$ released, poor condition; $\mathrm{D}=$ dead; $\mathrm{ESC}=$ escaped

Appendix 4 Continued

| Date | Effort (Set \#) | Stratum | 17Species | Fork Length (mm) | Weight <br> (g) | Fate | Sex |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| July 8, 2011 | 33 | 1 | LT | 700 | 4200 | R |  |
| July 8, 2011 | 33 | 1 | LW | 300 | 400 | R |  |
| July 8, 2011 | 33 | 1 | LW | 300 | 500 | R |  |
| July 8, 2011 | 33 | 1 | LW | 365 | 600 | RP |  |
| July 8, 2011 | 33 | 1 | LW | 290 | 300 | RP |  |
| July 8, 2011 | 33 | 1 | LW | 300 | 500 | RP |  |
| July 8, 2011 | 33 | 1 | LW | 400 | 1000 | RP |  |
| July 8, 2011 | 33 | 1 | LW | 300 | 550 | RP |  |
| July 8, 2011 | 33 | 1 | LW | 350 | 600 | RP |  |
| July 8, 2011 | 33 | 1 | LW | 300 | 500 | RP |  |
| July 8, 2011 | 33 | 1 | LW | 310 | 450 | RP |  |
| July 8, 2011 | 33 | 1 | LW | 310 | 550 | RP |  |
| July 8, 2011 | 33 | 1 | LW | 310 | 500 | RP |  |
| July 8, 2011 | 33 | 1 | LW | 300 | 500 | RP |  |
| July 8, 2011 | 33 | 1 | LW | 320 | 510 | RP |  |
| July 8, 2011 | 33 | 1 | LW | 300 | 500 | RP |  |
| July 8, 2011 | 33 | 1 | LW | 310 | 500 | RP |  |
| July 8, 2011 | 33 | 1 | LW | 300 | 600 | RP |  |
| July 8, 2011 | 33 | 1 | LW | 320 | 510 | RP |  |
| July 8, 2011 | 33 | 1 | LW | 310 | 500 | RP |  |
| July 8, 2011 | 34 | 1 | LT | 590 | 2200 | D | F |
| July 8, 2011 | 34 | 1 | LW | 330 | 500 | D | F |
| July 8, 2011 | 34 | 1 | LW | 385 | 800 | D | F |
| July 8, 2011 | 34 | 1 | LW | 410 | 1050 | D | M |
| July 8, 2011 | 34 | 1 | LW | 330 | 400 | D | F |
| July 8, 2011 | 34 | 1 | LW | 340 | 550 | D | M |
| July 8, 2011 | 34 | 1 | LW | 410 | 1050 | D | M |
| July 8, 2011 | 34 | 1 | LW | 300 | 350 | D | M |
| July 8, 2011 | 34 | 1 | LW | 350 | 500 | D | M |
| July 8, 2011 | 34 | 1 | LW | 310 | 550 | R |  |
| July 8, 2011 | 34 | 1 | LW | 320 | 600 | R |  |
| July 8, 2011 | 34 | 1 | LW | 370 | 900 | R |  |
| July 8, 2011 | 34 | 1 | LW | 320 | 510 | R |  |
| July 8, 2011 | 34 | 1 | LW | 290 | 310 | R |  |
| July 8, 2011 | 34 | 1 | LW | 430 | 1200 | R |  |
| July 8, 2011 | 34 | 1 | LW | 250 | 300 | RP |  |
| July 8, 2011 | 34 | 1 | LW | 375 | 320 | RP |  |

${ }^{17} \mathrm{LT}=$ lake trout; $\mathrm{LW}=$ round whitefish, $\mathrm{BB}=$ burbot, $\mathrm{NP}=$ northern pike
$\mathrm{R}=$ released; $\mathrm{RP}=$ released, poor condition; $\mathrm{D}=$ dead; $\mathrm{ESC}=$ escaped

Appendix 4 Continued

| Date | Effort (Set \#) | Stratum | 18Species | Fork Length (mm) | Weight <br> (g) | Fate | Sex |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| July 8, 2011 | 34 | 1 | LW | 355 | 700 | RP |  |
| July 8, 2011 | 34 | 1 | LW | 310 | 500 | RP |  |
| July 8, 2011 | 34 | 1 | LW | 310 | 500 | RP |  |
| July 8, 2011 | 34 | 1 | LW | 375 | 800 | RP |  |
| July 8, 2011 | 58 | 1 | LT | 626 | 3200 | D | F |
| July 8, 2011 | 58 | 1 | LW | 331 | 500 | D | M |
| July 8, 2011 | 58 | 1 | LW | 372 | 700 | D | F |
| July 8, 2011 | 58 | 1 | LW | 293 | 300 | D | UNK |
| July 8, 2011 | 58 | 1 | LW | 331 | 500 | D |  |
| July 8, 2011 | 58 | 1 | LW | 311 | 450 | D |  |
| July 8, 2011 | 58 | 1 | LW | 332 | 600 | D |  |
| July 8, 2011 | 58 | 1 | LW | 322 | 500 | D |  |
| July 8, 2011 | 58 | 1 | LW | 370 | 650 | RP |  |
| July 8, 2011 | 58 | 1 | LW | 444 | 1250 | RP |  |
| July 8, 2011 | 58 | 1 | LW | 304 | 300 | RP |  |
| July 8, 2011 | 58 | 1 | LW | 298 | 325 | RP |  |
| July 8, 2011 | 58 | 1 | LW | 358 | 700 | RP |  |
| July 8, 2011 | 58 | 1 | LW | 322 | 450 | RP |  |
| July 8, 2011 | 58 | 1 | LW | 351 | 700 | RP |  |
| July 8, 2011 | 58 | 1 | LW | 398 | 1000 | RP |  |
| July 8, 2011 | 58 | 1 | LW | 392 | 350 | RP |  |
| July 8, 2011 | 58 | 1 | LW | 314 | 450 | RP |  |
| July 8, 2011 | 58 | 1 | LW | 288 | 350 | RP |  |
| July 8, 2011 | 58 | 1 | LW | 304 | 400 | RP |  |
| July 8, 2011 | 58 | 1 | LW | 336 | 650 | RP |  |
| July 8, 2011 | 58 | 1 | LW | 298 | 350 | RP |  |
| July 8, 2011 | 58 | 1 | LW | 328 | 500 | RP |  |
| July 8, 2011 | 58 | 1 | LW | 321 | 450 | RP |  |
| July 8, 2011 | 58 | 1 | LW | 287 | 400 | RP |  |
| July 8, 2011 | 59 | 2 | LT | 428 | 1050 | D | M |
| July 8, 2011 | 59 | 2 | LT | 811 | 6900 | RP |  |
| July 8, 2011 | 60 | 3 | LW | 415 | 900 | D |  |
| July 8, 2011 | 60 | 3 | LT | 632 | 3000 | RP |  |
| July 8, 2011 | 60 | 3 | LW | 299 | 350 | RP |  |
| July 8, 2011 | 61 | 1 | LW | 355 | 600 | D | M |
| July 8, 2011 | 61 | 1 | LW | 407 | 110 | D | F |
| July 8, 2011 | 61 | 1 | LW | 364 | 700 | D | F |

${ }^{18} \mathrm{LT}=$ lake trout; $\mathrm{LW}=$ round whitefish, $\mathrm{BB}=$ burbot, $\mathrm{NP}=$ northern pike
$\mathrm{R}=$ released; $\mathrm{RP}=$ released, poor condition; $\mathrm{D}=$ dead; $\mathrm{ESC}=$ escaped

Appendix 4 Continued

| Date | Effort (Set \#) | Stratum | 19Species | Fork Length (mm) | Weight (g) | Fate | Sex |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| July 8, 2011 | 61 | 1 | LW | 357 | 500 | D | M |
| July 8, 2011 | 61 | 1 | LW | 339 | 450 | D | M |
| July 8, 2011 | 61 | 1 | LW | 297 | 400 | D | M |
| July 8, 2011 | 61 | 1 | LW | 356 | 750 | D | M |
| July 8, 2011 | 61 | 1 | LW | 325 | 400 | D | M |
| July 8, 2011 | 61 | 1 | LW | 303 | 400 | D | F |
| July 8, 2011 | 61 | 1 | LW | 401 | 900 | D | M |
| July 8, 2011 | 61 | 1 | LW | 392 | 900 | D |  |
| July 8, 2011 | 61 | 1 | LW | 375 | 800 | D | M |
| July 8, 2011 | 61 | 1 | LW | 268 | 300 | D |  |
| July 8, 2011 | 61 | 1 | LW | 407 | 1000 | D |  |
| July 8, 2011 | 61 | 1 | LW | 326 | 450 | D |  |
| July 8, 2011 | 61 | 1 | LW | 307 | 350 | D |  |
| July 8, 2011 | 61 | 1 | LW | 320 | 400 | D |  |
| July 8, 2011 | 61 | 1 | LW | 347 | 600 | D | F |
| July 8, 2011 | 61 | 1 | LW | 351 | 550 | D | F |
| July 8, 2011 | 61 | 1 | LW | 316 | 400 | D |  |
| July 8, 2011 | 61 | 1 | LW | 274 | 250 | D |  |
| July 8, 2011 | 61 | 1 | LW | 306 | 400 | D |  |
| July 8, 2011 | 61 | 1 | LW | 306 | 450 | D |  |
| July 8, 2011 | 61 | 1 | LW | 306 | 400 | D | UNK |
| July 8, 2011 | 61 | 1 | LW | 389 | 850 | D | F |
| July 8, 2011 | 61 | 1 | LW | 332 | 450 | D |  |
| July 8, 2011 | 61 | 1 | LW | 305 | 450 | D | F |
| July 8, 2011 | 61 | 1 | LW | 274 | 250 | D | UNK |
| July 8, 2011 | 61 | 1 | LW | 305 | 400 | D | M |
| July 8, 2011 | 61 | 1 | LT | 854 | 7300 | R |  |
| July 8, 2011 | 61 | 1 | LW | 376 | 700 | RP |  |
| July 8, 2011 | 61 | 1 | LW | 387 | 900 | RP |  |
| July 8, 2011 | 61 | 1 | LW | 347 | 750 | RP |  |
| July 8, 2011 | 61 | 1 | LW | 338 | 600 | RP |  |
| July 8, 2011 | 61 | 1 | LW | 424 | 1150 | RP |  |
| July 8, 2011 | 61 | 1 | LW | 325 | 500 | RP |  |
| July 8, 2011 | 61 | 1 | LW | 305 | 350 | RP |  |
| July 8, 2011 | 61 | 1 | LW | 322 | 400 | RP |  |
| July 8, 2011 | 61 | 1 | LW | 350 | 400 | RP |  |
| July 8, 2011 | 61 | 1 | LW | 335 | 400 | RP |  |

${ }^{19} \mathrm{LT}=$ lake trout; $\mathrm{LW}=$ round whitefish, $\mathrm{BB}=$ burbot, $\mathrm{NP}=$ northern pike
$\mathrm{R}=$ released; $\mathrm{RP}=$ released, poor condition; $\mathrm{D}=$ dead; $\mathrm{ESC}=$ escaped

Appendix 4 Continued

| Date | Effort (Set \#) | Stratum | 20Species | Fork Length (mm) | Weight <br> (g) | Fate | Sex |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| July 8, 2011 | 61 | 1 | LW | 344 | 500 | RP |  |
| July 8, 2011 | 62 | 3 | LT | 788 | 4750 | D | UNK |
| July 8, 2011 | 62 | 3 | LW | 411 | 850 | D | M |
| July 8, 2011 | 62 | 3 | LW | 360 | 650 | D |  |
| July 8, 2011 | 62 | 3 | LW | 391 | 900 | D |  |
| July 8, 2011 | 62 | 3 | LW | 295 | 300 | D |  |
| July 8, 2011 | 62 | 3 | LW | 357 | 700 | D | M |
| July 8, 2011 | 62 | 3 | LT | 805 | 7000 | RP |  |
| July 8, 2011 | 62 | 3 | LW | 322 | 450 | RP |  |
| July 8, 2011 | 62 | 3 | LW | 309 | 500 | RP |  |
| July 8, 2011 | 63 | 2 | LW | 374 | 850 | D | F |
| July 8, 2011 | 63 | 2 | LW | 368 | 700 | D | F |
| July 8, 2011 | 63 | 2 | LW | 367 | 700 | D | F |
| July 8, 2011 | 63 | 2 | LW | 398 | 1000 | D | M |
| July 8, 2011 | 63 | 2 | LW | 387 | 750 | D | M |
| July 8, 2011 | 63 | 2 | LW | 344 | 600 | D | M |
| July 8, 2011 | 63 | 2 | LW | 402 | 950 | D | F |
| July 8, 2011 | 63 | 2 | LW | 346 | 600 | D |  |
| July 8, 2011 | 63 | 2 | LW | 365 | 800 | D |  |
| July 8, 2011 | 63 | 2 | LW | 316 | 450 | D |  |
| July 8, 2011 | 63 | 2 | LW | 313 | 500 | D |  |
| July 8, 2011 | 63 | 2 | LW | 315 | 450 | D |  |
| July 8, 2011 | 63 | 2 | LW | 364 | 700 | D |  |
| July 8, 2011 | 63 | 2 | LW | 378 | 800 | D | F |
| July 8, 2011 | 63 | 2 | LW | 363 | 700 | D | M |
| July 8, 2011 | 63 | 2 | LW | 413 | 1000 | D |  |
| July 8, 2011 | 63 | 2 | LW | 379 | 800 | D |  |
| July 8, 2011 | 63 | 2 | LW | 388 | 900 | D | F |
| July 8, 2011 | 63 | 2 | LW | 350 | 550 | D |  |
| July 8, 2011 | 63 | 2 | LW | 347 | 650 | D | F |
| July 8, 2011 | 63 | 2 | LT | 764 | 4800 | R |  |
| July 8, 2011 | 63 | 2 | LW | 308 | 400 | RP |  |
| July 8, 2011 | 63 | 2 | LW | 366 | 800 | RP |  |
| July 8, 2011 | 63 | 2 | LW | 391 | 950 | RP |  |
| July 8, 2011 | 63 | 2 | LW | 292 | 400 | RP |  |

${ }^{20} \mathrm{LT}=$ lake trout; $\mathrm{LW}=$ round whitefish, $\mathrm{BB}=$ burbot, $\mathrm{NP}=$ northern pike
$\mathrm{R}=$ released; $\mathrm{RP}=$ released, poor condition; $\mathrm{D}=$ dead; $\mathrm{ESC}=$ escaped


[^0]:    ${ }^{2} \mathrm{LT}=$ lake trout; $\mathrm{LW}=$ round whitefish, $\mathrm{BB}=$ burbot, $\mathrm{NP}=$ northern pike

[^1]:    ${ }^{3} \mathrm{LT}=$ lake trout; $\mathrm{LW}=$ round whitefish, $\mathrm{BB}=$ burbot, $\mathrm{NP}=$ northern pike
    $\mathrm{R}=$ released; RP=released, poor condition; $\mathrm{D}=$ dead; $\mathrm{ESC}=$ escaped

[^2]:    ${ }^{4} \mathrm{LT}=$ lake trout; $\mathrm{LW}=$ round whitefish, $\mathrm{BB}=$ burbot, $\mathrm{NP}=$ northern pike

[^3]:    ${ }^{9} \mathrm{LT}=$ lake trout; $\mathrm{LW}=$ round whitefish, $\mathrm{BB}=$ burbot, $\mathrm{NP}=$ northern pike

