

# **ALBERTA FOREST RESOURCE IMPROVEMENT PROGRAM**

**1996 ANNUAL REPORT**

## **OPERATIONAL FISH AND STREAM INVENTORY**

**Weldwood of Canada Ltd. (Hinton Division)**

**and**

**Foothills Model Forest**

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## ABSTRACT

The purpose of this project is to increase the information known of the fish populations and aquatic habitats found within the Weldwood FMA/Foothills Forest. Fish and aquatic habitat data were collected from 4 June to 24 October 1996. An increase in the number of sites surveyed in 1996 (193) from 1995 (33) was a result of increased efficiencies in the field, as well as combining the efforts and resources of two crews funded by different funding agencies (FRIP and the Alberta Fisheries Trust Fund). It is recommended that a similar arrangement be continued in 1997 if both funding agencies are in agreement. The development of a sampling protocol is continuing with the Alberta Lotic Systems Steering Committee. A recommendation from this Committee is to produce a manual that will be used to collect aquatic habitat data. A proposal for this project is being submitted to the Alberta Fisheries Trust Fund for the 1997 field season. Management recommendations regarding fish issues are being considered for the 1998 Weldwood Forest Management Plan. Specifics of these recommendations will be finalized during through 1997.

Any comments suggestions about this project or report would be appreciated and can be directed to either:

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Several individuals and agencies have assisted us throughout the project. Their efforts are appreciated.

Weldwood of Canada (Hinton Division) has provided logistical support throughout the project. They have provided us access to their GIS system and operators, orthophotos, as well as direction and advice, especially from Gordon Stenhouse. We especially appreciate the efforts of the folks at Weldwood's garage, who were able to put us back on the road, despite the seemingly continual loss of trailer tires. Thanks.

Alberta Environmental Protection has assisted us throughout the project through several of the Services within the department. Without question, the most significant contribution has been from Natural Resources Service, Fisheries Management Branch in Edson. In particular, Carl Hunt and Jordan Walker were able to provide us with advice as well as the use of an electrofisher, then another. Other Services or areas of the department that helped us along the way are: Provincial Parks, Land and Forest Service, and the Environmental Training Center.

Jasper National Park was able to provide us with an alternate electrofisher, as well as the block-nets that were used for population estimates. The efforts of both Ward Hughson and George Mercer made this possible.

Finally, the most significant contribution to the project was the efforts of the folks in the field. Catherine Walker, Hilary Jones, Krista Hammett, and Lorrie Lech had to endure not only the weight of the electrofisher, but also: hoards of biting insects, rain, thunder storms on mountain tops and in muskegs, intense heat, and ice and snow. Their dedication, regardless of the difficulties encountered, made the project a success. These efforts were noted and appreciated.

## TABLE OF CONTENTS

ABSTRACT .....	ii
ACKNOWLEDGEMENTS.....	iii
LIST OF TABLES .....	v
LIST OF FIGURES .....	v
LIST OF APPENDICES .....	v
INTRODUCTION .....	1
METHODS AND MATERIALS.....	2
Description of study area.....	2
Site selection .....	2
Data collection.....	2
Fish data.....	2
Habitat data .....	2
Population estimates .....	4
RESULTS.....	4
Population estimates .....	6
DISCUSSION      8	
LITERATURE CITED.....	10
APPENDICES .....	11

## LIST OF TABLES

Table 1. Number of sites surveyed in Athabasca and North Saskatchewan drainages and sub-basins.....	5
Table 2. Number of sites surveyed in Weldwood's Working Circles.....	5
Table 3. Fish species and number captured during the 1995 and 1996 field seasons .....	6
Table 4. Summary of population estimates completed in 1996 .....	7

## LIST OF FIGURES

Figure 1. Location of the Foothills Model Forest and Weldwood Forest Management Agreement area.....	2
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## LIST OF APPENDICES

Appendix I. Deliverables from the 1996 FRIP- Weldwood detailed proposal: Operational Fisheries and Stream Inventory - Weldwood FMA and Foothills Model Forest .....	11
Appendix II. Summary output reports by site; 1995-96. (Note: this appendix is 226 pages long, and is available from the author upon request only) .....	11
Appendix III. Summary of site information collected in 1995 and 1996.....	12

## INTRODUCTION

Current fish and aquatic inventory data are required to help support the long-term timber harvest and resource protection planning undertaken by Weldwood of Canada (Hinton Division). Fish species occurrence, understanding of fish-habitat relationships and relative resource importance information are required for these objectives to be effective. This information will be useful for developing future Forest Management Plans, aquatic ecosystems plans and for aquatic/terrestrial integration. The purpose of this project is to increase the information known of the fish populations and aquatic habitats found within the Weldwood FMA/Foothills Forest. The focus for this study is on four sport species: rainbow trout, *Oncorhynchus mykiss*; Arctic grayling, *Thymallus arcticus*; bull trout, *Salvelinus confluentus*; and mountain whitefish, *Prosopium williamsoni*. This information will be useful in harvest scheduling, operational planning and for evaluation of fish populations in this area.

The objectives of this project were to collect: current fish and aquatic habitat data from those areas previously sampled by Alberta Fish and Wildlife, to increase the number of streams where inventory data exist, and gain an understanding of fish-habitats and the relation of these to fish populations. A proposal to initiate a multi-year fish and stream inventory project in the Weldwood FMA and Foothills Model Forest was submitted to the Forest Resource Improvement Program (FRIP) from Weldwood of Canada (Hinton Division) and the Foothills Model Forest. This proposal was approved and the deliverables were considered to be the terms of reference for this project (Appendix I).

A proposal from the Foothills Model Forest (FMF) for a second inventory crew was submitted to the Alberta Fish Habitat Development Program (FHDP) for the 1996 field season. This proposal was approved (for \$35,000) and resulted in a second field crew for 1996. Both managing agencies (Weldwood of Canada and Alberta Fish and Wildlife) agreed that these crews and projects should be run as a single project, sharing both personnel and resources. Because of this, it should be noted that those data collected in 1996 and presented in this report are not the results of the FRIP project only, but are results of a combined effort between both FRIP and FHDP.

This annual report is intended to serve as an interim report that summarizes the findings from the 1996 field season. An additional report outlining specific analyses required to satisfy the objectives in 1995 and 1996 will be completed by March 1997.

## METHODS AND MATERIALS

Except for the following changes, the methods and materials have remained unchanged from the original survey (Johnson and Lech 1996).

### Description of study area

Although most of the inventory sites were located within Weldwood's FMA area, several sites were included in 1996 which were located outside the FMA boundaries (Crown Forest Management Units), but were within the Foothills Model Forest (excluding Jasper National Park and Willmore Wilderness Park) (Figure 1).

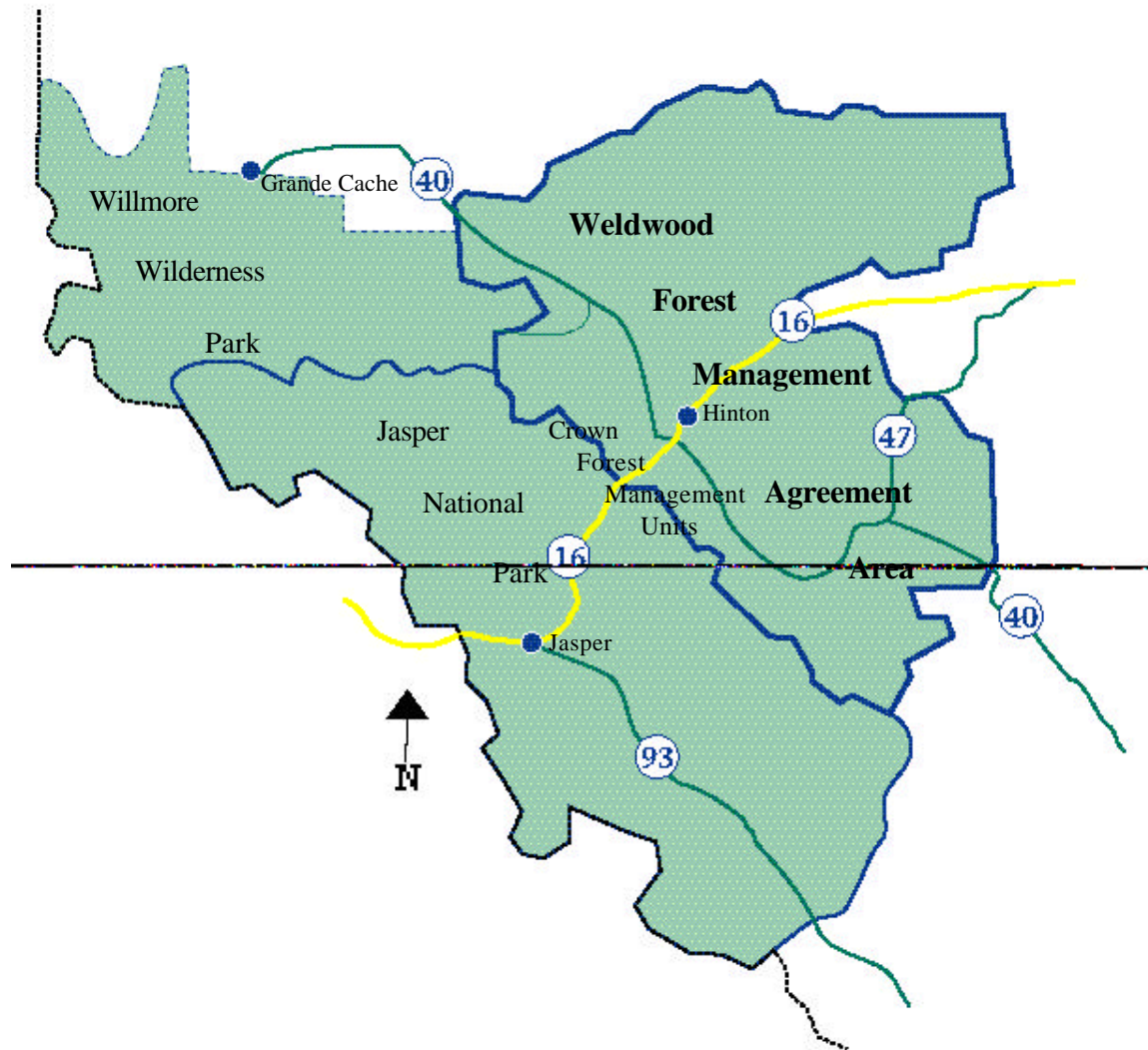


Figure 1. Foothills Model Forest and Weldwood Forest Management Agreement area.

## **Site selection**

Although site selection in 1996 followed the methods used in 1995, and the focus remained on pre-access and pre-harvest sites, there were some additional variables to consider. More consideration was given to those sites that had been sampled historically by Fish and Wildlife, with an effort placed on updating historical population estimates. Also, an effort was placed on gathering data from high and low access areas.

## **Data collection**

### **Fish data**

The addition of a second crew required a second electrofisher. This electrofisher was a Smith-Root Type VII backpack electrofisher. The settings on the Type VII were similar to those used on the Type 12-A whenever possible. Biological data collected from fish varied from 1995 in only 2 instances: 1) total length (compressed) was not measured for any species, and 2) age (otoliths) and sex were collected from a size-stratified sample of rainbow trout from upper and lower Wampus and Deerlick creeks (Sterling pers comm).

### **Habitat data**

The need for a standard sampling protocol was identified in the original FRIP Fish & Stream Inventory (March 1995). From December 1995 to the present, the Fish Biologist employed with the FMF has been involved with Alberta Fish & Wildlife's Lotic Systems Steering Committee. Work on this objective is continuing with the Alberta Lotic Systems Steering Committee through Alberta Environmental Protection. A recommendation of the committee was the production of a manual that can be used to generate qualitative habitat data with minimal observer bias. This project is being proposed for the summer of 1997 through the Alberta Fisheries Trust Fund, in conjunction with the Foothills Model Forest, Alberta Natural Resources Service, and the Alberta Lotic Systems Steering Committee.

Although a standard sampling protocol has not been defined for the province, the protocol used in 1995 by the Fish and Stream Inventory crew and the inventory crews with Fish and Wildlife in Peace River was followed again in 1996.

The following are the changes to the sampling protocol in 1996, as well as some omissions from the protocol in 1995.

- **water depth:** measured at 3 points across the channel (right, center, and left) to the nearest 0.01 meter using a meter stick at each transect



- **substrate composition:** an percentage was estimated at 3 points across the channel (right, center, and left) for each substrate type [fines (clay, sand, silt <2mm), small gravel (2-16mm), large gravel (16-64mm), small cobble (64-128mm), large cobble (128-256mm), boulder (>256mm), and bedrock] at each transect, these estimates were discussed between both workers present, and were recorded when the proportions were agreed upon

Although most of the sites sampled in 1995 were located using a GPS system, GPS data were not collected for approximately half of the sites surveyed in 1996. This was because only one GPS unit was available to the project. For those sites where these data were not collected, the location of these sites on a map was accomplished by digitizing these sites using Weldwood's GIS system.

### **Population estimates**

Population estimates were completed on several streams where historical population estimate data exist. These estimates were depletion-removal estimates based on a 300m reach. Block-nets were placed across the stream where possible, both at the top and bottom of the section. If a barrier already existed (hanging culvert), then the upstream block-net was not used. A three-pass removal pattern was used and all attempts were made to ensure that all assumptions of this estimate type were met (Zippin 1958, Kraft *et al* 1984). Population estimate data were analyzed using MicroFish 3.0 (Van Deventer and Platts 1989).

## **RESULTS**

The 1996 inventory field season began on 4 June and continued through to 24 October, 1996. The field season was terminated because of freeze-up. In 1996, an estimated 500 streams were visited. Of these, 103 streams were sampled. Some of these streams were sampled in more than one location, resulting in 193 sites in 1996. The total number of sites sampled in 1995 and 1996 was 226. All of these data were entered into the fish database and are presented in Appendix II.

Most of the streams sampled in 1996 were within the Athabasca River drainage (184 sites) (Table 1), with the exception of those streams sampled in the Cardinal and Brazeau watersheds (9 sites) which belong to the North Saskatchewan River drainage. To date, 217 sites have been sampled in the Athabasca River drainage, and 9 sites in the North Saskatchewan River drainage. The number of sites per sub-basin were not divided equally, with most of the sites being in the Berland River sub-basin (59 sites), followed by: McLeod River sub-basin (90 sites), and Pembina River sub-basin (15 sites), Brazeau River sub-basin (9 sites).

The number of sites per working circle (WC) (defined by Weldwood) were distributed more equally than drainage or sub-basin (mean number of sites/WC = 44.8) (Table 2), with the exception of the Marlboro WC where only 7 sites were surveyed. Most of the sites sampled were in the Embarrass WC (67 sites), followed

Table 1. Number of sites surveyed in Athabasca and North Saskatchewan drainages and sub-basins.

<b>Drainage</b>	<b>Sub-basin</b>	<b>1995</b>	<b>1996</b>	<b>Total</b>
Athabasca	Berland	9	50	59
Athabasca	McLeod	15	75	90
Athabasca	Pembina	0	15	15
Athabasca	tributaries to Athabasca	9	44	53
North Saskatchewan	Brazeau	0	9	9
<b>Total</b>		<b>33</b>	<b>193</b>	<b>226</b>

Table 2. Number of sites surveyed in Weldwood's Working Circles.

<b>Working Circle</b>	<b>1995</b>	<b>1996</b>	<b>Total</b>
Athabasca	0	38	38
Berland	10	39	49
Embarras	14	53	67
Marlboro	0	7	7
McLeod	9	54	63
outside of FMA	0	2	2
<b>Total</b>	<b>33</b>	<b>193</b>	<b>226</b>

by: McLeod WC (63 sites), Berland WC (49 sites), Athabasca (38 sites).

A total of 5351 fish were captured, identified, and measured in 1995 and 1996 (Table 3). The largest proportion of cold-water sportfish captured in 1996 were rainbow trout (60.9%) compared to brook trout (21.3%), bull trout (3.3%), mountain whitefish (0.5%), Arctic grayling (0.2%), and cutthroat trout (0.1%). In 1996, the proportions of sportfish captured remained similar to 1995, except that 2 additional sport species were captured: Arctic grayling (9) and cutthroat trout (5). Although not considered a sport species for the

purposes of this study, northern pike were also captured in 1996. A summary of each site is presented in Appendix III.

### Population estimates

Population estimate data were collected on 17 streams (Table 4) for 24 population estimates (in some situations, there were more than 1 species per site). All of the population estimates were done in order to collect current density data on those streams where population estimates were done previously. Although the focus of these population estimates was on rainbow trout, occasionally other species were present and it was possible to calculate an estimate for these species. The species other than rainbow trout encountered most often was brook trout, followed by bull trout. Some of the population estimates are not valid estimates. This can be a result of several reasons: changes in efficiencies between runs and creeks that are too wide to electrofish effectively.

Table 3. Fish species and number captured during the 1995 and 1996 field seasons.

Species	Number Captured 1995	% of total 1995	Number Captured 1996	% of total 1996	Number Captured Total	% of total
bull trout ( <i>Salvelinus confluentus</i> )	3	0.4%	154	3.3%	157	2.9%
rainbow trout ( <i>Oncorhynchus mykiss</i> )	369	51.3%	2821	60.9%	3190	59.6%
mountain whitefish ( <i>Prosopium williamsoni</i> )	2	0.3%	21	0.5%	23	0.4%
Arctic grayling ( <i>Thymallus arcticus</i> )	0	0.0%	9	0.2%	9	0.2%
brook trout ( <i>S. fontinalis</i> )	258	35.8%	985	21.3%	1243	23.2%
cutthroat trout ( <i>O. clarki</i> )	0	0.0%	5	0.1%	5	0.1%
other species <sup>1</sup>	88	12.2%	636	13.7%	724	13.5%
<b>Total</b>	<b>720</b>	<b>100.0%</b>	<b>4631</b>	<b>100.0%</b>	<b>5351</b>	<b>100.0%</b>

<sup>1</sup>other species include: burbot (*Lota lota*), northern pike (*Esox lucius*), longnose sucker (*Catostomus catostomus*), white sucker (*C. commersoni*), longnose dace (*Rhinichthys cataractae*), northern redbelly dace (*Phoxinus eos*), finescale dace (*P. neogaeus*), pearl dace (*Margariscus margarita*), trout perch (*Percopsis omiscomaycus*), brook stickleback (*Culaea inconstans*), and spoonhead sculpin (*Cottus ricei*)

Table 4. Summary of population estimates completed in 1996.

<b>Creek Name</b>	<b>Date</b>	<b>Species</b>	<b>Pop<sup>n</sup></b>	<b>+/- % CI</b>
Baseline	14-Aug	RNTR	18	<b>7.6%</b>
Baseline	14-Aug	BKTR	147	<b>7.9%</b>
Plante	19-Aug	BKTR	7	<b>4.3%</b>
Plante	19-Aug	RNTR	28	<b>183.1%</b>
Cold	27-Aug	BKTR	83	<b>6.4%</b>
Deerlick (lower)	6-Sep	RNTR	93	<b>9.1%</b>
Deerlick (lower)	6-Sep	BKTR	41	<b>12.2%</b>
Wampus (lower)	7-Sep	RNTR	135	<b>8.2%</b>
Wampus (lower)	7-Sep	BKTR	9	<b>24.3%</b>
Wampus (upper)	8-Sep	RNTR	229	<b>2.9%</b>
Deerlick (upper)	9-Sep	RNTR	80	<b>11.7%</b>
Mary Gregg	16-Sep	RNTR	46	<b>41.6%</b>
Anderson	18-Sep	RNTR	178	<b>5.7%</b>
Anderson	18-Sep	BLTR	27	<b>21.0%</b>
Antler	20-Sep	RNTR	64	<b>15.2%</b>
Warden	22-Sep	BKTR	37	<b>34.2%</b>
Warden	22-Sep	RNTR	81	<b>61.7%</b>
Gorge	2-Oct	RNTR	39	<b>12.8%</b>
Gorge	2-Oct	BKTR	67	<b>68.4%</b>
Collie	4-Oct	RNTR	37	<b>14.8%</b>
Trapper	7-Oct	RNTR	47	<b>27.2%</b>
Trapper	7-Oct	BLTR	42	<b>49.2%</b>
Mercoal	15-Oct	RNTR	37	<b>4.9%</b>
Mercoal	15-Oct	BKTR	21	<b>7.0%</b>

## DISCUSSION

During the field component of the study 4 of the 4 sportfish species that are the focus of this study (rainbow trout, bull trout, mountain whitefish, and Arctic grayling) were captured. Although the focus of the study is on 4 sportfish species, all fish species captured were considered important, and biological data were collected from each. In 1996, an additional cold-water sportfish, cutthroat trout, was captured. Within the study area, this species exists only in the North Saskatchewan River drainage as an introduced species.

The combination of both field crews was advantageous from an efficiency perspective. In 1995, only 33 sites were inventoried. In 1996, 193 sites were sampled, including population estimates. This the result of a longer field season, learning the methods and area, as well as increasing the number of staff in the field. A large volume of data was collected during 1996, including both baseline fish and habitat data as well as population estimate data. These data are being analyzed and will be presented in an additional report by end-March 1997. Given the results of the 1996 field season, I would recommend that combining field crews as happened in 1996 is advantageous for funding agencies, as long as project objectives are similar and are not compromised between projects.

The other components (other than the field components) of this study are either in progress or are completed. The development of a sampling protocol for lotic environments is continuing with Alberta Fish and Wildlife, through the Lotic Systems Steering Committee. A recommendation of the committee was the production of a manual that can be used to generate qualitative habitat data with minimal observer bias. This project is being proposed for the summer of 1997 through the Alberta Fisheries Trust Fund, in conjunction with the Foothills Model Forest, Alberta Natural Resources Service, and the Alberta Lotic Systems Steering Committee.

The creation of a standardized database framework between the Foothills Model Forest and Alberta Fish and Wildlife (Peace River) has been satisfied in that both databases contain similar information. It is difficult to develop "standards" for things like databases, sampling protocols, etc. that will be shared by several agencies, as individual agencies often have unique objectives. Different objectives result in different protocols. Such is the case with the "standard" database framework. The inventory database developed by Fish & Wildlife in Peace River exists in Borland dBase format, and contains only 1 table. The Fish and Stream Inventory database exists in Microsoft Access format and contains several tables. The reasons for the differences are simple. Alberta Fish and Wildlife have traditionally used Borland dBase, while the Foothills Model Forest and Weldwood of Canada (Hinton Division) have traditionally used Microsoft Access. None of these

organizations were willing to make a change to satisfy the other. Secondly, the database developed by Fish and Wildlife is used only by fisheries staff. The Fish and Stream Inventory database was designed to satisfy several objectives: to fit into a data model under development with the Foothills Model Forest, incorporation of the database into the Watershed Assessment Model by the Watershed Coordinator, to be used by fisheries staff at the Foothills Model Forest, and to be used by staff at Weldwood. Both of the databases were developed with similar, yet different intended uses. The result is similar, but somewhat different database formats.

Recommendations for fish management issues in the 1998 Weldwood Forest Management Plan have been discussed, although not finalized. It is anticipated that the specifics of these recommendations will be finalized in early 1997.

## LITERATURE CITED

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- Zippin, 1958. The removal method of population estimation. J. of Wildl. Man., Vol. 22(1). p. 82-90.

Appendix I. Deliverables from 1996 FRIP proposal.

1. Fishery and aquatic habitat information for use in operation planning and harvest scheduling. This information will also be useful in evaluating the link between management activities within a watershed and fish populations of those streams.
2. Computer database of inventory information including past fisheries studies and inventory linked to the Weldwood GIS.
3. Work with Fish and Wildlife to develop a standard sampling protocol for use by industry, government and consultants in fish and stream inventories within Alberta.
4. A standardized database framework linked to and able to share information with similar fisheries databases under development in Peace River and Grande Prairie.
5. Standard inventory reports generated from the database and GIS on all sampled streams.
6. Management recommendations, based on data collected to date, will be prepared for incorporation into the 1998 FMP.

Appendix II. Summary output reports by site; 1995-96. (Note: this appendix is 226 pages long, and is available from the author upon request only).



Appendix III. Summary of site information collected in 1995 and 1996.

Site ID	Day	Mo	Year	Stream Name	Drainage	Tributary to	Working Circle	Compar- tment	Total # of RNTR	Total # of BKTR	Total # of BLTR	Total # of CTTR	Total # of MNWH	Total # of ARGR	# of Other Species	Total # of fish
95028	19	10	1995	Big Creek	Athabasca	Berland	Berland	1	9	0	3	0	0	0	0	12
95025	28	8	1995	Unnamed Creek	Athabasca	Berland	Berland	20	0	0	0	0	0	0	1	1
95017	3	10	1995	Unnamed Creek	Athabasca	Jessie Ck	Berland	21	0	0	0	0	0	0	0	0
95018	3	10	1995	Unnamed Creek	Athabasca	Jessie Ck	Berland	21	0	0	0	0	0	0	4	4
95027	26	8	1995	Jessie Creek	Athabasca	Berland	Berland	21	3	0	0	0	0	0	7	10
95020	3	10	1995	Unnamed Creek	Athabasca	Berland	Berland	22	3	0	0	0	0	0	19	22
95001	23	8	1995	Beaver Creek	Athabasca	Berland	Berland	28	0	0	0	0	0	0	0	0
95002	24	8	1995	Beaver Creek	Athabasca	Berland	Berland	28	0	0	0	0	0	0	4	4
95005	24	8	1995	Unnamed Creek	Athabasca	Berland	Berland	28	1	0	0	0	0	0	3	4
95024	25	8	1995	Unnamed Creek	Athabasca	Berland	Berland	28	0	0	0	0	0	0	0	0
95014	20	9	1995	Erith River	Athabasca	Embarras	Embarras	11	3	0	0	0	0	0	10	13
95015	22	9	1995	Unnamed Creek	Athabasca	Embarras	Embarras	11	88	0	0	0	0	0	0	88
95006	6	9	1995	Watson Creek	Athabasca	McLeod	Embarras	6	16	0	0	0	0	0	0	16
95007	7	9	1995	Unnamed Creek	Athabasca	McLeod	Embarras	6	0	0	0	0	0	0	0	0
95008	8	9	1995	Watson Creek	Athabasca	McLeod	Embarras	6	41	7	0	0	1	0	4	53
95009	12	9	1995	Beaverdam Creek	Athabasca	McLeod	Embarras	6	48	0	0	0	0	0	0	48
95010	13	9	1995	Beaverdam Creek	Athabasca	McLeod	Embarras	6	5	0	0	0	0	0	14	19
95012	15	9	1995	Chief Creek	Athabasca	Beaverdam	Embarras	6	4	0	0	0	1	0	3	8
95013	19	9	1995	Rainbow Creek	Athabasca	Beaverdam	Embarras	6	4	0	0	0	0	0	3	7
95019	19	9	1995	Not Shocked			Embarras	6	0	0	0	0	0	0	0	0
95011	14	9	1995	Mitchell Creek	Athabasca	Embarras	Embarras	8	4	0	0	0	0	0	2	6
95026	12	10	1995	Unnamed Creek	Athabasca	Mitchell	Embarras	9	11	0	0	0	0	0	0	11
95029	11	10	1995	Unnamed Creek	Athabasca	Mitchell	Embarras	9	19	0	0	0	0	0	0	19
95030	20	10	1995	Unnamed Creek	Athabasca	Erith	Embarras	9	5	0	0	0	0	0	0	5
95022	27	9	1995	Hunt Creek	Athabasca	Athabasca	McLeod	12	1	169	0	0	0	0	0	170
95023	17	10	1995	Sandstone Creek	Athabasca	Athabasca	McLeod	12	39	65	0	0	0	0	0	104
95033	27	10	1995	Ponoka Creek	Athabasca	Athabasca	McLeod	12	2	16	0	0	0	0	1	19
95031	23	10	1995	Unnamed Creek	Athabasca	McLeod	McLeod	17	20	0	0	0	0	0	0	20
95032	26	10	1995	Unnamed Creek	Athabasca	McLeod	McLeod	18	31	0	0	0	0	0	1	32
95016	28	9	1995	White Creek	Athabasca	McLeod	McLeod	20	7	0	0	0	0	0	5	12
95021	5	10	1995	Unnamed Creek	Athabasca	White Ck	McLeod	20	1	0	0	0	0	0	7	8
95003	15	8	1995	Seabolt Creek	Athabasca	Maskuta	McLeod	8	1	0	0	0	0	0	0	1
95004	14	8	1995	Seabolt Creek	Athabasca	Maskuta	McLeod	8	3	1	0	0	0	0	0	4
<b>TOTALS</b>									369	258	3	0	2	0	88	<b>720</b>

Site ID	Day	Mo	Year	Stream Name	Drainage	Tributary to	Working Circle	Compartment	Total # of RNTR	Total # of BKTR	Total # of BLTR	Total # of CTR	Total # of MNWH	Total # of ARGR	# of Other Species	Total # of fish
96174	2	10	1996	Gorge Creek	Athabasca	Athabasca	Athabasca	0	61	44	1	0	0	0	6	112
96124	13	8	1996	Solomon Creek	Athabasca	Athabasca	Athabasca	1	0	21	0	0	0	0	0	21
96125	13	8	1996	Solomon Creek	Athabasca	Athabasca	Athabasca	1	6	0	6	0	0	0	0	12
96166	23	9	1996	Twelve Mile Creek	Athabasca	Wildhay	Athabasca	1	12	0	0	0	0	0	0	12
96021	18	6	1996	Unnamed Creek	Athabasca	Plante	Athabasca	11	0	0	0	0	0	0	0	0
96029	21	6	1996	Apetown Creek	Athabasca	Plante Ck	Athabasca	11	0	0	0	0	0	0	0	0
96006	7	6	1996	Fish Creek	Athabasca	Athabasca	Athabasca	13	14	20	0	0	0	0	0	34
96027	21	6	1996	Unnamed Creek	Athabasca	Fish Creek	Athabasca	14	9	0	0	0	0	0	0	9
96028	21	6	1996	Fish Creek	Athabasca	Athabasca	Athabasca	14	10	3	0	0	0	0	0	13
96038	25	6	1996	Centre Creek	Athabasca	Pembina	Athabasca	14	0	60	0	0	0	0	0	60
96020	17	6	1996	Plante Creek	Athabasca	Athabasca	Athabasca	17	5	2	1	0	1	0	5	14
96022	18	6	1996	Unnamed Creek	Athabasca	Athabasca	Athabasca	17	0	0	0	0	0	0	0	0
96030	55	6	1996	Oldman Creek	Athabasca	Athabasca	Athabasca	17	6	0	0	0	0	0	2	8
96037	25	6	1996	Gorge Creek	Athabasca	Athabasca	Athabasca	17	29	25	0	0	0	0	1	55
96193	19	8	1996	Plante Creek	Athabasca	Athabasca	Athabasca	17	18	9	0	0	2	0	13	42
96026	20	6	1996	Plante Creek	Athabasca	Athabasca	Athabasca	22	21	0	0	0	0	0	0	21
96067	9	7	1996	Barbara Creek	Athabasca	Wildhay	Athabasca	23	4	1	4	0	0	0	0	9
96123	12	8	1996	Unnamed Creek	Athabasca	Unnamed Ck	Athabasca	24	0	0	0	0	0	0	4	4
96031	22	6	1996	Unnamed Creek	Athabasca	Oldman Ck	Athabasca	26	2	0	0	0	0	0	0	2
96032	22	6	1996	Unnamed Creek	Athabasca	Oldman Ck	Athabasca	26	1	0	0	0	0	0	0	1
96033	23	6	1996	Unnamed Creek	Athabasca	Wildhay	Athabasca	26	0	0	0	0	0	0	0	0
96036	25	6	1996	Unnamed Creek	Athabasca	Oldman	Athabasca	26	0	0	0	0	0	0	0	0
96040	26	6	1996	Unnamed Creek	Athabasca	Oldman	Athabasca	27	0	0	0	0	0	0	0	0
96041	26	6	1996	Unnamed Creek	Athabasca	Oldman	Athabasca	27	12	0	0	0	0	0	6	18
96039	26	6	1996	Unnamed Creek	Athabasca	Wildhay	Athabasca	29	0	0	0	0	0	0	0	0
96165	23	9	1996	Winter Creek	Athabasca	Jarvis Ck	Athabasca	3	0	0	0	0	0	0	0	0
96035	25	6	1996	Unnamed Creek	Athabasca	Wildhay	Athabasca	30	2	0	0	0	0	0	28	30
96117	10	8	1996	Unnamed Creek	Athabasca	Unnamed	Athabasca	31	0	0	0	0	0	0	6	6
96119	11	8	1996	Unnamed Creek	Athabasca	Berland	Athabasca	31	0	0	0	0	0	0	5	5
96115	10	8	1996	Unnamed Creek	Athabasca	Berland	Athabasca	32	2	0	0	0	0	0	0	2
96116	10	8	1996	Unnamed Creek	Athabasca	Berland	Athabasca	32	0	0	0	0	1	0	18	19
96120	11	8	1996	Unnamed Creek	Athabasca	Wildhay	Athabasca	32	0	0	0	0	0	0	0	0
96121	11	8	1996	Unnamed Creek	Athabasca	Berland	Athabasca	32	0	0	0	0	0	0	0	0
96023	19	6	1996	Canyon Creek	Athabasca	Athabasca	Athabasca	8	6	37	0	0	0	0	0	43
96024	19	6	1996	Canyon Creek	Athabasca	Athabasca	Athabasca	8	7	20	0	0	0	0	0	27
96025	19	6	1996	Unnamed Creek	Athabasca	Athabasca	Athabasca	9	0	0	0	0	0	0	0	0
96034	23	6	1996	Baseline Creek	Athabasca	Athabasca	Athabasca	9	1	55	0	0	0	0	0	56
96152	14	8	1996	Baseline Creek	Athabasca	Athabasca	Athabasca	9	19	153	1	0	0	0	1	174
96050	4	7	1996	Pinto Creek	Athabasca	Wildhay	Berland	10	0	0	0	0	0	0	16	16
96060	7	7	1996	Unnamed Creek	Athabasca	Pinto	Berland	11	1	0	0	0	0	0	0	1
96061	7	7	1996	Unnamed Creek	Athabasca	Pinto	Berland	11	1	0	0	0	0	0	0	1
96062	8	7	1996	Unnamed Creek	Athabasca	Wildhay	Berland	11	0	0	0	0	0	0	0	0

96063	8	7	1996	Unnamed Creek	Athabasca	Wildhay	Berland	11	0	0	0	0	0	0	0	0	0
96066	9	7	1996	Unnamed Creek	Athabasca	Pinto	Berland	11	0	0	0	0	0	0	0	0	0
96044	3	7	1996	Unnamed Creek	Athabasca	Pinto Creek	Berland	18	0	0	0	0	0	0	0	0	0
96045	3	7	1996	Unnamed Creek	Athabasca	Wroe Creek	Berland	18	0	0	0	0	0	0	0	0	0
96049	4	7	1996	Unnamed Creek	Athabasca	Pinto Creek	Berland	18	35	0	0	0	0	0	0	0	35
96051	4	7	1996	Unnamed Creek	Athabasca	Pinto Creek	Berland	18	0	0	0	0	0	0	0	0	0
96180	5	10	1996	Fox Creek	Athabasca	Berland	Berland	2	2	0	3	0	0	0	0	0	5
96052	5	7	1996	Unnamed Creek	Athabasca	Hightower	Berland	20	7	0	0	0	0	0	0	0	7
96059	7	7	1996	Smith Creek	Athabasca	Berland	Berland	20	14	0	0	0	0	0	0	0	14
96188	16	10	1996	Unnamed Creek	Athabasca	Pinto	Berland	22	0	0	0	0	0	0	0	0	0
96189	17	10	1996	Unnamed Creek	Athabasca	Beaver	Berland	22	0	0	0	0	0	0	0	0	0
96187	16	10	1996	Unnamed Creek	Athabasca	Pinto	Berland	23	18	0	0	0	0	0	2	20	0
96190	17	10	1996	Unnamed Creek	Athabasca	Berland	Berland	23	0	0	0	0	0	0	0	0	0
96113	9	8	1996	Unnamed Creek	Athabasca	Beaver	Berland	26	0	0	0	0	0	0	0	0	0
96118	10	8	1996	Unnamed Creek	Athabasca	Beaver Ck	Berland	26	0	0	0	0	0	0	0	0	0
96043	2	7	1996	Hightower Creek	Athabasca	Pinto	Berland	27	1	0	0	0	0	2	4	7	0
96114	9	8	1996	Beaver Creek	Athabasca	Berland	Berland	28	1	0	0	0	0	0	16	17	0
96122	12	8	1996	Unnamed Creek	Athabasca	Berland	Berland	28	0	0	0	0	0	0	8	8	0
96064	8	7	1996	Unnamed Creek	Athabasca	Fox	Berland	3	2	0	3	0	0	0	0	5	0
96065	8	7	1996	Unnamed Creek	Athabasca	Little Berland	Berland	3	0	0	4	0	0	0	0	4	0
96179	4	19	1996	Collie Creek	Athabasca	Wildhay	Berland	34	44	0	5	0	0	0	0	49	0
96183	5	10	1996	Morberly Creek	Athabasca	Wildhay	Berland	34	4	20	0	0	0	0	5	29	0
96184	5	10	1996	Doctor Creek	Athabasca	Wildhay	Berland	34	2	0	0	0	0	0	0	2	0
96042	2	7	1996	Wildcat Creek	Athabasca	Hightower	Berland	5	2	0	0	0	1	0	7	10	0
96048	4	7	1996	Unnamed Creek	Athabasca	Wildcat	Berland	5	13	0	0	0	0	0	0	13	0
96058	6	7	1996	Unnamed Creek	Athabasca	Wildcat	Berland	5	0	0	0	0	0	0	0	0	0
96053	5	7	1996	Unnamed Creek	Athabasca	Hightower	Berland	6	4	0	0	0	0	0	0	4	0
96055	5	7	1996	Unnamed Creek	Athabasca	Athabasca	Berland	6	6	0	0	0	0	0	1	7	0
96046	3	7	1996	Hightower Creek	Athabasca	Pinto	Berland	7	0	0	0	0	0	0	4	4	0
96047	3	7	1996	Wroe Creek	Athabasca	Pinto	Berland	7	3	0	0	0	0	0	12	15	0
96054	5	7	1996	Unnamed Creek	Athabasca	Hightower	Berland	7	1	0	0	0	0	0	0	1	0
96056	6	7	1996	Unnamed Creek	Athabasca	Hightower	Berland	7	6	0	0	0	0	0	0	6	0
96057	6	7	1996	Unnamed Creek	Athabasca	Hightower	Berland	7	3	0	0	0	0	0	0	3	0
96181	5	10	1996	Teitge Creek	Athabasca	Pinto Ck	Berland	8	1	0	0	0	0	0	0	1	0
96182	5	10	1996	Fred Creek	Athabasca	Teige Ck	Berland	8	0	0	0	0	0	0	0	0	0
96132	22	8	1996	Mitchell Creek	Athabasca	Embarras	Embarras	7	21	0	0	0	0	0	0	21	0
96086	24	7	1996	Grave Creek	North Sask	Cardinal	Embarras		0	0	0	1	0	0	0	1	0
96145	25	8	1996	Lendrum Creek	Athabasca	Erith	Embarras	0	0	0	0	0	1	0	20	21	0
96078	22	7	1996	Unnamed Creek	Athabasca	Lovett R	Embarras	1	0	20	0	0	0	0	0	20	0
96079	22	7	1996	Unnamed Creek	Athabasca	Pembina	Embarras	1	0	2	0	0	0	0	0	2	0
96080	23	7	1996	Unnamed Stream	Athabasca	Pembina	Embarras	1	0	4	0	0	0	0	7	11	0
96081	23	7	1996	Unnamed Creek	Athabasca	Pembina	Embarras	1	0	0	0	0	0	0	0	0	0
96082	23	7	1996	Lund Creek	Athabasca	Lendrum Ck	Embarras	1	49	0	1	0	0	0	0	50	0
96110	29	7	1996	Lovett River	Athabasca	Pembina	Embarras	1	0	7	0	0	0	0	5	12	0
96099	27	7	1996	Halpenny Creek	Athabasca	Erith	Embarras	10	4	0	0	0	1	0	4	9	0
96104	28	7	1996	Erith River	Athabasca	Embarras	Embarras	10	0	0	0	0	2	0	5	7	0

96106	29	7	1996	Bacon Creek	Athabasca	Erith	Embarras	10	15	0	0	0	0	0	0	15
96107	29	7	1996	Erith River	Athabasca	Embarras	Embarras	10	3	0	0	0	1	0	1	5
96143	25	8	1996	Unnamed Creek	Athabasca	Erith	Embarras	11	0	0	0	0	0	0	0	0
96108	29	7	1996	Erith River	Athabasca	Embarras	Embarras	12	58	0	0	0	0	0	0	58
96139	24	8	1996	Lost Creek	Athabasca	Embarras	Embarras	12	3	4	0	0	0	0	0	7
96140	24	8	1996	Dummy Creek	Athabasca	Embarras	Embarras	12	9	25	0	0	0	0	5	39
96095	26	7	1996	Centre Creek	Athabasca	Pembina	Embarras	13	0	23	0	0	0	0	2	25
96096	26	7	1996	Unnamed Creek	Athabasca	Center Ck	Embarras	13	0	0	0	0	0	0	0	0
96109	29	7	1996	Unnamed Creek	Athabasca	Centre	Embarras	13	0	13	0	0	0	0	0	13
96085	24	7	1996	Centre Creek	Athabasca	Pembina	Embarras	14	0	22	0	0	0	0	1	23
96094	26	7	1996	Bailey Creek	Athabasca	Pembina	Embarras	14	0	5	0	0	1	0	4	10
96105	28	7	1996	Lovett River	Athabasca	Pembina	Embarras	14	1	3	0	0	0	0	0	4
96083	23	7	1996	Crooked Creek	Athabasca	Pembina	Embarras	15	0	5	0	0	0	0	4	9
96084	23	7	1996	Crooked Creek	Athabasca	Pembina	Embarras	15	0	1	0	0	0	0	0	1
96090	25	7	1996	Cardinal River	North Sask	Brazeau	Embarras	16	2	0	11	4	0	0	0	17
96091	25	7	1996	Redcap Creek	North Sask	Cardinal	Embarras	16	0	0	17	0	0	0	0	17
96092	25	7	1996	Unnamed Creek	North Sask	Brazeau	Embarras	18	0	0	0	0	0	0	0	0
96087	24	7	1996	Unnamed Creek	North Sask	Cardinal	Embarras	19	0	0	0	0	0	0	0	0
96088	24	7	1996	Muskiki Creek	North Sask	Cardinal	Embarras	19	0	1	0	0	0	0	1	2
96089	24	7	1996	Unnamed Creek	North Sask	Brazeau	Embarras	19	0	0	11	0	0	0	0	11
96093	25	7	1996	Unnamed Creek	North Sask	Thistle Ck	Embarras	19	0	0	1	0	0	0	0	1
96097	26	7	1996	Unnamed Creek	North Sask	Grave Ck	Embarras	19	0	0	0	0	0	0	0	0
96098	26	7	1996	Rat Creek	Athabasca	Pembina	Embarras	19	0	1	0	0	0	0	0	1
96100	27	7	1996	Unnamed Creek	Athabasca	Lund	Embarras	2	37	0	1	0	0	0	0	38
96101	27	7	1996	Lund Creek	Athabasca	Lendrum Ck	Embarras	2	20	0	0	0	0	0	7	27
96102	28	7	1996	Unnamed Creek	Athabasca	Lund	Embarras	2	6	0	0	0	0	0	0	6
96103	28	7	1996	Unnamed Creek	Athabasca	Lund	Embarras	2	4	0	0	0	0	0	28	32
96146	25	8	1996	Lendrum Creek	Athabasca	Erith	Embarras	2	21	0	0	0	0	0	2	23
96147	25	8	1996	Unnamed Creek	Athabasca	Lendrum	Embarras	2	3	0	0	0	0	0	52	55
96131	21	8	1996	Unnamed Creek	Athabasca	Hanlan	Embarras	3	14	0	0	0	0	0	0	14
96134	22	8	1996	Unnamed Creek	Athabasca	Hanlan	Embarras	3	65	0	0	0	0	0	21	86
96135	22	8	1996	Unnamed Creek	Athabasca	Lendrum	Embarras	3	7	0	0	0	0	0	8	15
96141	24	8	1996	Hanlan Creek	Athabasca	Lendrum	Embarras	3	18	0	0	0	2	0	6	26
96149	26	8	1996	Unnamed Creek	Athabasca	Erith	Embarras	3	18	0	0	0	0	0	4	22
96142	25	8	1996	Lendrum Creek	Athabasca	Erith	Embarras	4	69	0	0	0	0	0	0	69
96144	25	8	1996	Halpenny Creek	Athabasca	Erith	Embarras	4	100	0	0	0	0	0	0	100
96178	3	10	1996	Taylor Creek	Athabasca	Beaver Dam	Embarras	6	31	0	0	0	0	0	3	34
96191	15	10	1996	Mercoal Creek	Athabasca	McLeod	Embarras	6	44	21	2	0	0	0	13	80
96133	22	8	1996	Unnamed Creek	Athabasca	Mitchell	Embarras	7	0	0	0	0	0	0	0	0
96136	23	8	1996	Unnamed Creek	Athabasca	Erith	Embarras	9	4	0	0	0	0	0	27	31
96137	23	8	1996	Unnamed Creek	Athabasca	Unnamed Ck	Embarras	9	5	0	0	0	0	0	13	18
96138	23	8	1996	Unnamed Creek	Athabasca	Unnamed Ck	Embarras	9	0	0	0	0	0	0	0	0
96175	3	10	1996	Lynx Creek	Athabasca	Athabasca	Marlboro	11	23	0	0	0	1	0	0	24
96176	3	10	1996	Unnamed Creek	Athabasca	Athabasca	Marlboro	12	73	0	0	0	0	0	0	73
96177	3	10	1996	Unnamed Creek	Athabasca	Athabasca	Marlboro	13	20	0	0	0	0	0	3	23

96126	17	8	1996	Sundance Creek (Big)	Athabasca	McLeod	Marlboro	16	0	0	0	0	0	0	3	3
96127	17	8	1996	Sundance Creek (Big)	Athabasca	McLeod	Marlboro	16	0	0	0	0	0	0	22	22
96128	26	7	1996	Sundance Creek (Big)	Athabasca	McLeod	Marlboro	16	0	0	0	0	0	0	18	18
96071	15	7	1996	Unnamed Creek	Athabasca	Edson River	Marlboro	7	2	0	0	0	0	0	12	14
96167	24	9	1996	Berry's Creek	Athabasca	Gregg	McLeod		0	0	0	0	0	0	0	0
96170	1	10	1996	Maskuta Creek	Athabasca	Athabasca	McLeod	1	3	0	0	0	0	0	6	9
96068	15	7	1996	Unnamed Creek	Athabasca	Cold	McLeod	10	0	0	0	0	0	0	0	0
96069	15	7	1996	Unnamed Creek	Athabasca	Cold	McLeod	10	0	0	0	0	0	0	0	0
96074	18	7	1996	Unnamed Creek	Athabasca	Cold Creek	McLeod	10	0	0	0	0	0	0	0	0
96075	18	7	1996	Cold Creek	Athabasca	Maskuta	McLeod	10	0	22	0	0	0	0	0	22
96151	27	8	1996	Cold Creek	Athabasca	Maskuta	McLeod	10	0	80	0	0	0	0	0	80
96016	13	6	1996	Hunt Creek	Athabasca	Athabasca	McLeod	12	0	2	0	0	0	0	0	2
96018	14	6	1996	Unnamed Creek	Athabasca	Sandstone	McLeod	12	0	0	0	0	0	0	0	0
96019	14	6	1996	Hunt Creek	Athabasca	Athabasca	McLeod	12	0	0	0	0	0	0	0	0
96171	1	10	1996	Rooster Creek	Athabasca	Athabasca	McLeod	13	15	0	0	0	0	0	0	15
96001	4	6	1996	Hunt Creek	Athabasca	Athabasca	McLeod	16	0	55	0	0	0	0	0	55
96153	3	9	1996	Trail Creek	Athabasca	Athabasca	McLeod	16	3	48	0	0	0	0	2	53
96007	10	6	1996	Unamed Creek	Athabasca	McLeod	McLeod	17	32	0	1	0	0	0	7	40
96008	10	6	1996	Unnamed Creek	Athabasca	Quigley Ck	McLeod	17	0	0	0	0	0	0	2	2
96010	11	6	1996	Mepheron Creek	Athabasca	McLeod	McLeod	17	1	0	0	0	0	0	3	4
96011	11	6	1996	Unnamed Creek	Athabasca	McLeod	McLeod	17	0	0	0	0	0	0	0	0
96012	11	6	1996	Unnamed Creek	Athabasca	McLeod	McLeod	17	30	0	0	0	0	0	1	31
96013	12	6	1996	Unnamed Creek	Athabasca	McLeod	McLeod	17	1	0	0	0	0	0	0	1
96014	12	6	1996	Quigley Creek	Athabasca	McLeod	McLeod	17	16	0	0	0	0	0	0	16
96015	13	6	1996	Unnamed Creek	Athabasca	McLeod	McLeod	17	0	0	0	0	0	0	6	6
96172	1	10	1996	Lambert Creek	Athabasca	Embarras	McLeod	18	78	0	0	0	0	0	0	78
96173	1	10	1996	Unnamed Creek	Athabasca	Lambert	McLeod	18	0	0	0	0	0	0	0	0
96162	22	9	1996	Warden Creek	Athabasca	Gregg	McLeod	2	67	30	1	0	0	0	47	145
96164	23	9	1996	Drinnan Creek	Athabasca	Gregg	McLeod	2	1	12	0	0	0	0	0	13
96169	24	9	1996	Gregg River	Athabasca	McLeod	McLeod	2	11	0	0	0	0	0	0	11
96148	28	8	1996	Chance Creek	Athabasca	Embarras	McLeod	23	21	33	0	0	0	0	0	54
96192	24	10	1996	Embarras River	Athabasca	McLeod	McLeod	23	0	0	0	0	0	0	7	7
96158	10	9	1996	Eunice Creek	Athabasca	McLeod	McLeod	24	1	0	3	0	0	0	0	4
96154	6	9	1996	Deerlick Creek	Athabasca	McLeod	McLeod	3	116	54	2	0	5	0	4	181
96155	7	9	1996	Wampus Creek	Athabasca	McLeod	McLeod	3	206	9	0	0	0	0	3	218
96156	9	8	1996	Wampus Creek	Athabasca	McLeod	McLeod	3	276	0	0	0	0	0	0	276
96157	9	9	1996	Deerlick Creek	Athabasca	McLeod	McLeod	3	150	0	0	0	0	0	0	150
96168	24	9	1996	Luscar Creek	Athabasca	McLeod	McLeod	3	5	13	0	0	0	0	0	18
96185	7	10	1996	Eunice Creek	Athabasca	McLeod	McLeod	3	0	0	0	0	0	0	0	0
96186	7	10	1996	Trapper Creek	Athabasca	Mary Gregg	McLeod	3	108	0	39	0	0	0	0	147
96073	18	7	1996	Neat Creek	Athabasca	McLeod	McLeod	4	5	0	0	0	0	0	3	8
96077	19	7	1996	Mary Gregg Creek	Athabasca	McLeod	McLeod	4	12	0	0	0	1	0	0	13
96129	20	8	1996	Antler Creek	Athabasca	McLeod	McLeod	4	19	0	0	0	0	0	1	20

96130	20	8	1996	Neat Creek	Athabasca	McLeod	McLeod	4	14	0	1	0	0	0	1	16
96159	16	9	1996	Mary Gregg Creek	Athabasca	McLeod	McLeod	4	62	0	2	0	0	0	3	67
96002	5	6	1996	Unnamed Creek	Athabasca	Anderson	McLeod	5	18	0	0	0	0	0	18	
96003	5	6	1996	Unnamed Creek	Athabasca	Anderson	McLeod	5	6	0	0	0	0	0	6	
96004	6	6	1996	Anderson Creek	Athabasca	McLeod	McLeod	5	10	0	0	0	0	0	10	
96070	16	7	1996	Antler Creek	Athabasca	McLeod	McLeod	7	7	0	3	0	0	5	15	
96076	18	7	1996	Wigwam Creek	Athabasca	McLeod	McLeod	7	33	0	1	0	0	0	34	
96161	20	9	1996	Antler Creek	Athabasca	McLeod	McLeod	7	59	0	1	0	0	28	88	
96163	23	9	1996	Teepee Creek	Athabasca	Gregg	McLeod	7	84	0	0	0	0	0	84	
96111	7	8	1996	Seabolt Creek	Athabasca	Maskuta	McLeod	8	1	0	0	0	0	0	1	
96112	8	8	1996	Seabolt Creek	Athabasca	Maskuta	McLeod	8	0	0	0	0	0	0	0	
96005	6	6	1996	Anderson Creek	Athabasca	McLeod	McLeod	9	20	0	0	0	0	0	20	
96009	11	6	1996	Unnamed Creek	Athabasca	McLeod	McLeod	9	0	0	0	0	0	0	0	
96017	13	6	1996	Mepherston Creek	Athabasca	McLeod	McLeod	9	9	0	0	0	0	0	9	
96160	18	9	1996	Anderson Creek	Athabasca	McLeod	McLeod	9	152	0	28	0	0	0	180	
96150	26	8	1996	Rodney Creek	Athabasca	Embarras	Out Of Fma	2	0	0	0	0	7	32	41	
96072	17	7	1996	Windfall Creek	Athabasca	Athabasca	Out Of Fma	0	0	0	0	0	1	0	4	5
								<b>TOTALS</b>	RNTR	BKTR	BLTR	CTTR	MNWH	ARGR	Other Fish	<b>Total</b>
									2821	985	154	5	21	9	636	<b>4631</b>

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