A Socio-Economic Evaluation of Sportsfishing Activity in Southern Alberta

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Interim Project Report

INTRODUCTION

Recreational fishing is one of the most important recreational activities in Alberta. The report on Sports Fishing in Alberta, 1985, states that over 340,000 angling licences were purchased in the province and the total population of anglers exceeded 430,000. Approximately 5.4 million angler days were spent in Alberta and over $130 million was spent on fishing related activities. Clearly, sportsfishing is an important recreational activity and the fishery resource is the source of significant social benefits.

A National Angler Survey is conducted every five years. However, the results of this survey are broad and aggregate in nature insofar that they do not address issues about specific sites. It is the purpose of this study to examine in detail the characteristics of anglers, and angling site choices, in the Southern region of Alberta. Fish and Wildlife agencies have collected considerable amounts of bio-physical information on fish habitat, water quality, biology and ecology. In this study the social elements of recreational fishing are examined. The bio-physical information helps define the potential supply of recreational fishing opportunities while the social/economic information helps define the demand for fishing opportunities. Why do individual choose to participate in recreational fishing? How many times do they participate in a season? What are the factors affecting fishing intensity? Where do recreational anglers go? Why do they choose these sites? The answers to these questions will provide information on the demand for angling experiences and the attitudes and values of recreational anglers. This information will also help in planning habitat improvement, fish stocking and other management changes in response to angler demands or in an attempt to improve the quality of the recreational experience.

Social/economic research in recreational fishing at a regional level is somewhat limited. This study represents the first major project in Alberta examining fishing demand at regional and subregional levels. The information should be valuable to fisheries managers as well as other parties interested in the fishery resource.

This report presents the results of a survey of Southern region (Alberta Fish and Wildlife division Fish Management Areas 1 and 2) fishing activity. In this interim report descriptive results from the survey are presented. In subsequent research, models of fishing site choice will be developed. These models are designed to measure the impact of alternate uses of water resources on recreational fishing activity, the impact of management options (site closures, stocking, etc) on site choice and recreational fishing values, and the impact of quality factors (crowding, water quality, etc) on the recreational fishing experience. In the original research proposal the following research objectives were listed:

(1) to develop a survey instrument and sampling design to collect the data required for the recreational demand model.

(2) to use the data collected to analyze the demographic and socio-economic characteristics of sportfishing recreationists.

(3) to develop a model of recreational fishing site choice using social, economic and physical information about recreationists and fishing sites.

This interim report addresses objectives (1) and (2). The final report will address item (3).

BACKGROUND

In October 1989 a task force was developed to examine the valuation of recreational fisheries in

the Southern region of Alberta. This task force included individuals from the Alberta Fish and Wildlife Division, Land Services Information Division, and the University of Alberta. The task force was initiated to address the issue of the opportunity cost of recreational fishery losses in the event of alternate uses of the water resources. The following passage, from the minutes of one of the initial meetings of the task force, illustrates the focus of the group. "...the Division should be able to provide estimates of the costs of the project from the loss of fisheries recreational opportunities. In addition, management actions as a result of recreationists substituting sites, or crowding effects caused by substitution, need to be determined based upon sound understanding of the social and economic values held by the users." A "Needs Analysis" revealed the following:

> There is a lack of socioeconomic data.
>
> There is a need to assess the effectiveness of fish management programs e.g. stocking pond A or pond B, the effect of changing a regulation, the value of a fishing experience, what makes fishing desirable, what opportunities should be provided, how cost effective are habitat development programs, and what are the impacts of alternative resource developments.

Based on the assessment by the task force, a proposal was forwarded to the Alberta Fisheries Enhancement Fund to provide for an in depth survey of recreational fishing in Southern Alberta. The focus of the survey was to elicit information on fishing preferences, values, and attitudes as well as activity information. These data would be used to develop a model of recreational fishing site choice and intensity. The model would be used to evaluate the impact of changes in fishing quality, management decisions or changes in environmental conditions surrounding the fishing sites. The survey was designed to focus on the Southern region fishing sites. The sampling design, described below, was developed based on historical visitation patterns. While individuals living in the Southern region tend to also fish in the Southern region, individuals from other regions in the province (notably the Central region) also fish in the Southern region. The survey was based on a geographical distribution which was expected to account for approximately 95% of the fishing trips to Southern Alberta. The Southern region, the Central region

and certain communities in the eastern slopes region were included to account for the majority of fishing activity in the south.

SURVEY DESIGN

The survey was designed to elicit information on perceptions of a quality fishing experience, characteristics of a typical fishing trip, opinions on fisheries management options, fishing activity in 1990 and a variety of socioeconomic characteristics of the respondents and their families. The survey was designed by individuals in the Department of Rural Economy, University of Alberta, with assistance from individuals at the Alberta Fish and Wildlife Division. Several forms of pre-tests were performed. Surveys were handed out to individuals at the Great Plains Fishery Workers Association Annual Meeting in Lethbridge Alberta (February 4-6, 1991) and a presentation informed participants about the survey design and structure. A more formal pretest involved mailing an early version of the survey to a random sample of Alberta anglers (names and addresses obtained from fishing licences). The results of these pretests were examined to provide information on question restructuring and design. After pretesting, the final version of the survey instrument contained four sections: (1) Attitudes and Opinions About Fishing, (2) Awareness of Recreational Fishing Opportunities in Southern Alberta, (3) Fishing Activity in 1990 and (4) Demographic Information. The structure of each section is outlined below. (A copy of the survey is attached).

(1) Attitudes and Opinions about Fishing

This section was constructed to elicit opinions about quality factors that affect the recreational fishing experience, the type of activities the average angler engages in, opinions about fisheries management options and the expenditures on recreational fishing. The factors affecting recreational fishing quality were captured using a 1-5 rating scale of various items which may affect the choice of fishing site. These factors included water quality, distance to the site, boat access, etc. Individuals were

also asked about their favourite site, how many years they had visited this site, what attributes attracted them and how they became aware of the site. In order to gauge the type of fishing activity occurring in the Southern region, respondents were asked to described a typical fishing trip. The factors they were asked to describe included the mode of transportation chosen, the length of stay, the type of fishing, pounds of fish caught, years of experience, length of planning period before a trip, individuals accompanying the respondent and whether the respondent practices catch and release fishing. This section also elicited information on the respondent's choice of fisheries management options if overfishing becomes a problem. Respondents were asked to choose from season length restrictions, size limits, cancelling bait fishing, increasing licence fees, increasing stocking, increasing enforcement, enforcing catch and release, increasing fines or other categories of management options. The average annual expenditures on fishing (transport costs, licence costs, food, bait, etc) were also elicited. Finally, as a screening variable for the remainder of the survey, individuals were asked if they fished in 1990. If they answered YES they were directed to the next section of the survey on fishing site awareness.

(2) Awareness of Recreational Fishing Opportunities in Southern Alberta

In order to gain an understanding of the awareness of fishing sites in the Southern region of Alberta, respondents were presented with a map, illustrating 77 fishing sites in the Southern region, and were asked to indicate which of the sites they had ever visited or heard of as a fishing site. This section will provide information on the sites individuals consider when making fishing site choices. The results from this section may also be useful when generating information to promote recreational fishing. A site which is not recognized as a fishing spot may be promoted through recreational opportunity and tourism material. In the technical portion of the economic modelling, the awareness factor is an essential ingredient for a model predicting site choice.

(3) Fishing Activity in Southern Alberta in 1990

Respondents were asked to fill in a trip activity chart for each fishing trip between May 1, 1990

and October 31, 1990. This chart included the name of the site, the distance from home, party size, fish species sought, number caught and released and the type of water body visited. The respondents were also asked to mark on a calender the dates over which these trips occurred. This information provides a detailed view of the location and duration of fishing activity. The information will also be useful for constructing the economic model of site choice and the calender will add information on the type of site chosen at various times in the fishing season. Respondents were also asked to provide the total number of fishing trips made in the 1990 season.

(4) Demographic Information

The demographic section of the survey elicited information on place of residence, gender, age, household size and structure, income, education, and leisure time availability. These factors may be important in determining the number of fishing trips, the type of fishing experience sought (i.e. fishing with children in a nearby pond versus wilderness trophy fishing) and the timing of fishing trips.

The survey packet included a cover letter, a survey and a "prize ballot". The cover letter (copy attached) included the logos of Trout Unlimited, the University of Alberta and the Alberta Fish and Wildlife Division. This letter encouraged individuals to respond and emphasized the importance of this information for management and conservation. The prize ballot was enclosed as an incentive to respond or a reward for those who took the time to respond. Several prizes were donated by Trout Unlimited, Alberta Fish and Wildlife Division and Walleye Country Lures. The prizes were presented to those individuals who were drawn from the set of respondents who filled out the prize ballot. A separate ballot was included to facilitate separation of the ballot (with the respondent's name) from the survey and thereby maintain confidentiality and anonymity of the responses.

The survey design plays a large role in response rates. Research has shown that a well designed

survey will significantly increase response. In the next section, the sampling design and the response to the two mailings of the survey will be discussed.

SAMPLING DESIGN

1. Pretest

A small sample of 50 names were used for an initial mailout to test the response to the questionnaire on 5 Feb 1991. The 50 names were drawn at random from a list of 150 provided by the Alberta Fish and Wildlife Division. This list was a surplus from a sample population created for The National Sports Fishing Survey run concurrently by the division. After minor changes to the survey, the final instrument was ready for mailing.

2. Southern Region Sample

The goal was to sample the population of fishermen in Alberta that fish in the Southern region. Based on previous research it was assumed that 60% of those people that fish in the Southern region live in that region. Another 20% live in the region from Southern region north to Calgary. Another 15% live in the area from Calgary to Leduc. By including all fishermen from Leduc south, the sample would cover 95% of the population that fish in the southern region. These assumptions would be verified by a separate sample (see below under "Provincial Sample").

The copies of all fishing licences sold in Alberta in 1990 were made available by the Alberta Fish and Wildlife Division. These were evaluated on the basis of residence, with those living within the designated area separated for sampling. Any licence that had already been used for the concurrent National Sportsfishing survey was excluded, regardless of place of residence. The licences were then counted to determine the method to be used to obtain the final sample size of 5,000. A total of 62,783 were found to be within the designated area.

The sample was created by picking one of every 12 licences, for a total of 6,001 cases within the sample. Given that the licences were stored on the basis of arrival, and not in any order by residence, the count was started with the first licence in each box, and then continued through the whole filebox. These

names were then entered into a computer database. In the instance where the 12th licence was not suitable for the sample, the next licence was used without interrupting the count. Licences were deemed to be unsuitable if they had an address that was incomplete, or in the case where a licence not from the designated region was inadvertently included among the 62,783.

The 6,001 cases were then further reduced to the final sample size of 5,000 through the use of a random selection. A random number generator was used to select a start point between 1 and 56 and then every 6th licence was deleted.

The 5,000 names were used for the first mailout of the survey, sent on March 13th, 1991. The questionnaire package included an entry form for a prize draw. Upon return of a questionnaire, the draw forms were separated from the questionnaire, and checked with the 5,000 name mailing list. Names of those who had returned completed questionnaires were removed from the mailing list. As well, the names of those questionnaires returned not completed (improper address, no longer at that address etc) were removed from the list. The total received to this point (1,051) and the total returned incomplete (374) reduced the list to 3575 names. This reduced list of 3575 was then used to send a second package to non-respondents on May 6, 1991.

3. Alberta Sample

A smaller sample of 478 was taken from a list of 1978 names provided by the Fish and Wildlife Division to verify that the sample of 5000 truly approximated the population that fished in the Southern region. This sample included people residing in all parts of the province. The first mailout was sent on May 6, 1991 with the second mailout of the main survey sample. Four weeks later a second package was sent to all the names on this list of 478 names.

RESPONSE RATES

The table below illustrates the response rates for the first and second mailing of the Southern region survey and the Alberta survey (the sample used to check the proportion of anglers in the Southern region from all residences in the province). The total Southern region survey mailout of 5000 provided a

response of 2,114 completed questionnaires and 580 surveys returned unopened (incorrect addresses, individuals who have moved, etc.). The effective response rate was 48%, a rate which is quite admirable given the complexity of the survey instrument and the fact that this was a mail survey. The Alberta survey sample of 500 resulted in a similar response rate (43%). In both cases approximately 10% of the sample resulted in questionnaires returned unopened. This figure is about average for mail surveys.

Some preliminary results examining the presence of non-response bias indicates that there is no evidence of non-response bias between the first and second mailings (those who responded to the second mailing were non-respondents to the first mailing) for demographic variables (age, income, education). This indicates that there is no difference in demographic variables between the respondents to the first and second mailings. However, investigation of non-response bias on the factors of number of fishing trips and participation in fishing did reveal some evidence of non-response bias. The second mailing not only increased the effective response rate by 17% but it probably decreased any non-response bias by including a group which showed less active interest in recreational angling. Additional investigation into non-response bias was not-possible given the resources available, however, we feel that the second mailing has significantly reduced the presence of any non-response bias which may have been evident in the first mailing.

Table 1. Sample Size, Response and Response Rates for the Survey.

Mailout	Number sent	Number returned Unopened	Percent returned Unopened	Effective sample size	Number completed	Percent of effective completed
Southern region First Mailout	5,000	431	9	4,569	1535	34
Southern region Second Mailout	3,575	149	4	3,426	579	17
Total	5,000	580	12	4,420	2,115	48
Province wide First Mailout	478	32	7	446	118	26
Province wide Second Mailout	478	15	3	463	69	15
Total	478	47	10	431	187	43

The remainder of this report discusses the highlights of the Southern region results from the fishing survey. Included in the discussion are the characteristics of a typical trip, the awareness of sites in the Southern region, a summary of the activities of Southern Region anglers and a description of the demographic characteristics of Southern region anglers. These results are based on the 2,115 responses to the Southern region survey and they are also stratified into two categories, **Category 1:** the total set of respondents to the survey, and **Category 2:** the set of respondents who took at least 1 fishing trip within the Southern region.

From a management perspective, distinguishing between **Category 1** and **Category 2** is important. Category 2 represents those respondents who took at least one fishing trip in the Southern region. Hence, the attitudes and opinions expressed here are meaningful when evaluating management policies for the Southern region. Respondents from Category 1 may or may not have fished in the Southern region, and therefore in some cases the attitudes and opinions may not accurately reflect those characteristics unique to the Southern region.

SURVEY RESULTS

Detailed results of the survey responses are contained in Appendices A and B. Appendix A encompasses those responses from **Category 1** (the total set of responses), and Appendix B reflects responses from **Category 2** (active Southern region anglers). The descriptives from these results will be presented in this section. As an explanatory note, any reference in the descriptives made to the **"entire set"** refers to the data in Appendix A, and any reference made to **"Southern region anglers"** refers to the data in Appendix B.

ATTITUDES AND OPINIONS ABOUT FISHING

Questions 1.1 through 1.16 in Appendices A and B provide information about factors influencing where respondents want to fish. The results from the entire set of respondents (Appendix A) indicate that a good chance to catch trophy-size fish rates relatively low. A good chance to catch the limit and a

good chance to catch a preferred fish species ranks somewhat important.

For over fifty percent of the respondents, knowing that the lake is stocked with fish was split between somewhat important and very important, with responses in the order of twenty seven percent and twenty eight percent respectively.

Over fifty percent of the respondents ranked privacy from other anglers as being important. Natural beauty of the surroundings, access to wilderness areas, and water quality all ranked as being very important. Natural beauty and access to wilderness areas was important for over seventy percent of the respondents, and water quality was important for eighty five percent of the respondents.

For over seventy percent of the respondents, the fact that a site was limited to fly fishing was not important.

Over seventy five percent of the respondents considered distance from home to be an important factor in deciding where they wanted to fish. Of these seventy five percent, forty seven percent rank it somewhat important. Similarly, familiarity with the area was important for over fifty percent of the respondents. Access to picnic or camping facilities at or near the site, on average, rated somewhat important, however the responses were fairly evenly distributed between not important and very important. Fishing at a site with boat access was not important, whereas good road access to the site was somewhat important. Finally, owning land or a cabin near the site, and having friends or relatives living nearby was not important for an overwhelming ninety percent of the respondents.

Comparing the Southern region angler responses with those for the entire set, it was found that, in most cases, the respondents exhibited similar attitudes and opinions. Ratings on good chances of catching trophy-sized fish, catching the limit, and catching a preferred fish species were similar in both surveys. Knowing that the lake is stocked with fish ranked somewhat higher with the Southern respondents.

Privacy from other anglers, natural beauty of surroundings, water quality, and access to wilderness areas, again, all ranked as somewhat important to very important. As is shown in questions 1.5 through 1.8 in Appendices A and B, the Southern region responses closely mirror those for the entire sample.

The fact that a site was limited to fly fishing was not important for the Southern respondents, but the Southern mean was slightly higher than that for the entire set.

The responses for questions 1.10 through 1.16 are almost identical (in terms of means and medians) for the Southern responses and the entire set, with only negligible differences between means.

FAVOURITE FISHING SITE

Question 2 in Appendix A examines responses from the entire set of respondents about their favourite fishing site. The most frequent response indicated that fourteen percent of the respondents have fished at their favourite site for 10 years. The median response was 7 years and the mean was 9.975 years. The standard deviation was just over 9 years. There were some noticeable secondary peaks in frequency values at 3, 5,

15 and 20 years, with percentage of responses at 10, 12, 7 and 7 respectively.

Over the last five years, 24.6 percent of respondents visited their favourite site 6-10 times, while 21.7 percent visited more than thirty times. The mean number of visits was 16-20, and the median was 11-15.

Over thirty seven percent of the respondents first became aware of the site from friends. Information from family members and random chance were a distant second and third place with 16.5 and 15.3 percent respectively.

The survey revealed that the specific things about a favourite fishing site that are particularly enjoyed are good fishing (catch rate), scenic quality, and seclusion, with 18.4, 15.7, and 15.5 percent of responses respectively. All other site characteristics proposed in the survey each received less than seven percent of the total response. It is interesting to compare these site-specific characteristics with the general attitudes and opinions expressed about fishing in questions 1.1 through 1.16. There are several marked differences between general opinions and site specific characteristics, for example water quality and distance from home.

Data for the Southern region anglers show some differences from that of the entire survey. In the

southern region (Appendix B, 2A-2D), thirteen percent of the respondents indicated that they had been fishing at their favourite site for 10 years. The median and mean values were slightly higher at 8 and 10.790 respectively. Again, there were frequency peaks at 5, 11-15, and 16-20 years.

Over twenty six percent of the respondents visited their favourite site more than 30 times over the last 5 years. The mean and median were somewhat higher than for the entire survey at close to 15 times and 16-20 times.

Similar to those responses shown in Appendix A, the Southern region respondents first became aware of the site from friends. Family members and random chance were the second and third place sources of information.

Furthermore, good catch rates, seclusion and quietness, and scenic quality were the most popular specific things about the favourite fishing site that are particularly enjoyed. For the frequency distribution of all site-specific characteristics, refer to Appendix B - Question 2D. It is interesting to compare the rankings of these site specific characteristics to the general attitudes and opinions about fishing expressed in Appendix B - Question 1.1 through 1.16.

A TYPICAL FISHING TRIP

A typical fishing trip in Alberta involves a fisherman with an average of 21 years of fishing experience driving (in a car, truck or van) to the fishing site, and staying for a full day, or two to three days. The time spent travelling from home to the fishing site is, on average, found to be enjoyable. The trip is usually planned a few days before, and 38 percent of the time they go fishing with friends (36 percent of the time is with family). The fishermen typically employ spin casting from shore, with the most popular alternative method being ice fishing. An overwhelming majority of fishermen practice catch and release fishing. One to four pounds is the typical amount of fish that is taken home on a single trip.

Examining the Southern region anglers, a typical fishing trip is very comparable to that of the rest of Alberta except for two differences. First, a typical trip to a fishing site in Southern Alberta is for a full day, and usually fishermen go with friends.

Over a typical fishing season, the majority of fishermen throughout Alberta and the Southern region usually spend in excess of five hundred dollars. In both survey responses, the distribution patterns of expenditure are similar and are also fairly evenly distributed among each expenditure category, with some minor fluctuations.

MANAGEMENT OPTIONS

If overfishing becomes a problem in Alberta lakes and rivers, the management option that would most likely be seen in addressing the problem, (as the responses indicate in both Appendices A and B, and the histogram "Preferred Management Option") is that of employing catch and release fishing. Increased stocking is a close second. In both the Southern responses and the entire set, it is worth noting that when other management options are chosen, the majority opinion lies in a combination of the management options presented in question 4. Also, as the histogram suggests, the active Southern region responses closely reflect those of the entire survey.

AWARENESS

The survey revealed that a large proportion of the respondents went sportfishing in Alberta in 1990. Active respondents in the Southern region went sportfishing over ninety eight percent of the time. The results over the entire survey were slightly lower with only eighty eight percent of the respondents sportfishing in Alberta in 1990.

Question 7 (pages 4-5 in the survey) examines the issue of awareness of fishing sites. The seventy-seven Southern Alberta sites named in the survey were divided into fifteen regional groups. The awareness of sites within each regional group are graphically depicted in this section of the report, and frequency statistics for all respondents and the active respondents in the Southern region are found in Question 7 in Appendices A and B. In all cases, awareness of the seventy seven sites was higher for the Southern respondents compared with those for the entire survey.

The descriptive analysis for these statistics will begin with a comparison and description within

each regional group, and will extend to an overall ranking of site-awareness over the entire Southern Alberta region.

In the Upper Oldman River area, the site that respondents visited or heard of as a fishing site most was the Upper Oldman River. For the active Southern respondents, Dutch creek was second with 39.4 percent aware, and over the entire survey the Oldman River to the Piegan reserve was second with 29.0 percent.

The most well-known site in the Crowsnest River area for the Southern respondents was Castle River, with 42.2 percent awareness. For the entire survey, it was a close tie for first place between Crowsnest River (Passberg to Lundbreck) and Castle River, with 28.7 and 28.6 percent awareness.

In the Castle River area, Beavermines lake was the most familiar site, with 53.9 and 34.1 percent awareness for the Southern and overall respondents respectively.

Overall, awareness statistics for the Waterton Lakes area were relatively low. The site most were aware of was Mami (Paine) Lake, with 25.3 percent for active Southern respondents, and 15.0 percent over the entire survey.

The most familiar site in the Pincher Creek area was Beauvais Lake for both sets of respondents. Over 47 percent of Southern Alberta respondents were aware of this site, with a corresponding figure for the entire set of responses at 29.7 percent. In both cases, the second most familiar site was the Waterton Reservoir.

In the Claresholm area, Chain Lake was the site respondents were most aware of, with 61.9 percent aware for the active Southern responses, and 50.0 percent aware over the entire set of responses. The most well-known site in the Vulcan area was McGregor reservoir, and in the Lethbridge area, Keho Lake was the most familiar site.

The Claresholm, Lethbridge and Vulcan areas are combined on the bar chart. Chain Lake is the most well-known site in this set, with McGregor Reservoir and Travers Reservoir following in second and third place. It is worth noting that McGregor and Travers reservoir are both located in the Vulcan area, and awareness about the sites in the Lethbridge area were generally lower than that for the other two areas.

The best known site in the Cardston area is Police (Outpost) Lake with 44.5 percent aware in the Southern region, and a notably lower 27.8 percent aware over the entire survey. In both surveys, St. Mary Reservoir was second place, and the third place remaining sites had fairly evenly distributed awareness percentages.

Awareness of respondents to sites in the Milk River-Warner area were relatively lower than that for other areas. In both Appendices A and B, the site with the highest awareness percentage was Tyrell Lake. In the Southern region, 26.2 percent of the respondents were aware of the location, and over the entire survey, awareness was a much lower 15.3 percent. Again, in both sets of survey results, the second and third sites for awareness were, respectively, the Milk River Ridge Reservoir and the Heninger Reservoir. All other locations had awareness responses of less than 10 percent.

In the Taber area, the most familiar site was Chin Reservoir, with 37.2 percent of the Southern respondents and 23.3 percent of all respondents aware of the location. In the Vauxhall area, the most familiar site was Little Bow Reservoir, with 38.1 percent of active Southern respondents and 28.3 percent over the entire survey aware of the site. Examining the bar graph, it can be seen that the two previously mentioned sites rated significantly higher, in term of awareness, than the other location within these regions.

Sites in the Bassano area had relatively high awareness responses compared to other regions. The most familiar location was the Bow River (Carseland to Bassano) with 42.8 percent and 35.1 percent of responses attributable to the Southern and overall surveys respectively. The Bow River (Bassano to mouth) was in second places with 39.7 and 32.0 percent of the respondents aware, and the Red Deer River (Finegan to Dinosaur) followed with 25.7 and 23.7 percent of respondents aware of the location.

The most well-known site in the Brooks area is Lake Newell, with over 50 percent of the Southern region respondents aware of the site, and a corresponding figure of 38.2 percent for the entire survey. Other awareness statistics for sites in this region were fairly low.

A bar chart presented below encompasses awareness data for the Bassano/Brooks area. Within this region, Lake Newell is by far the most familiar site with over 50 percent awareness, and the two Bow

River locations follow in second place with approximately 40 percent of respondent awareness.

In the Medicine Hat area the most familiar site was Elkwater Lake, with 35.4 percent of the Southern respondents aware of the location, and a corresponding value of 23.7 percent over the entire set of responses. Second place went to Reesor Lake with 29.3 percent and 17.7 percent of Southern and all respondents aware respectively.

Examining all the statistical data, the three most well-known sites that respondents have ever visited of heard of as a fishing site are Chain Lake, McGregor Reservoir, and Lake Newell, with 50 percent, 44 percent and 38 percent, respectively, of all respondents aware of these locations. These rankings are consistent in both the active Southern respondent data and the entire set of responses. For a complete set of rankings, refer to the frequency distribution tables in Appendices A and B. As a note, the site that fishermen were least aware of was Butcher Lake, which is in the Pincher Creek area.

FISHING TRIPS ACTUALLY TAKEN

Data from the entire set of respondents indicates that, on average, the number of fishing trips taken in 1990 was 9, with a median value of 5 and a standard deviation of just about 11 trips. The most frequent response was 3 trips with 13 percent of the respondents indicating so. There were noticeable frequency jumps at 20 and 30 trips, with, in each case, a 3 percent response rate.

Examining the data set from those respondents active in the Southern region, values for the mean, median and standard deviation were slightly higher, at 10, 6 and 11.833 respectively. Again, there were noticeable frequency jumps at 30 days with a 4 percent response rate, and at 15 and 20 days with a 3 percent response rate.

The entire set of respondents indicated that in 1990, they took fishing trips to a total of 581 sites in Alberta. The site data seemed to naturally separate into three distinct groups: the 77 Southern Alberta sites named in the survey (refer to question 7), general locations referring to major rivers in Alberta, and over 500 miscellaneous sites, most of which are not located in Southern Alberta.

Furthermore, the Southern angler respondents took fishing trips to a total of 439 sites.[1]

At this point, an explanatory note is needed. In the data set in Appendices A and B for all parts of Question 8, there are two response percentages calculated. "Percent of responses" is the percentage response (or percent of total visits) of a particular location over all sites visited. Obviously, this number totals to 100. "Percent of cases" is a value reflecting the fact that a single site may be visited by more than one fisherman. Since only 15 sites are requested, and different survey respondents can visit the same site, the percent-of-cases value totals to greater than 100. Essentially, this figure denotes the percentage of respondents that visited the site as one of their fifteen visits.

Of the 77 Southern sites named in the survey, the site where most respondents took fishing trips was McGregor Reservoir, with 2.9 percent response rate over all the data, and 18.1 case-percent of respondents listing it as a fishing site they travelled to. Other most-visited sites, in descending order of rank and with case-percentages around the 10 percent mark, are: Chain Lake, Bow river (Bassano to mouth), Reesor Lake, Lake Newell, Travers Reservoir, and Beavermines Lake. For response and case percentages, refer to Question 8b in Appendix A.

The most visited general location was the Bow river, with over 60 percent of cases travelling to this site, and an individual response of 9.7 percent over all visited sites. In second place was the Red Deer River, with a much lower 14.7 percent of all respondents travelling to this site, and 2.3 percent overall visiting percentage.

For the over 500 miscellaneous sites visited, two notable locations stand out. Gull lake was the most visited site, with 14.1 case-percent, and a 2.2 percent visiting rate over all 649 locations. Pine Lake followed with corresponding figures of 12.9 percent and 2.0 percent. Other conspicuous locations were Crawling Valley Reservoir, Sylvan Lake, Highwood River, and Kananaskis Lake.

In the southern region, fishing trips were taken to a total of 635 sites. Of the 77 Southern sites, the most visited was McGregor reservoir, with case and overall survey response rates of 31.0 percent and

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[1] Site locations for all survey respondents and the subset of Southern anglers can be found under Question 8B in Appendices A and B respectively. Code numbers for each site were assigned by the researchers but not all sites were visited by respondents. Therefore, not all site numbers appear in the data.

4.4 percent respectively. Chain Lake and the Bow River (Carseland to Bassano) were the second and third most visited sites.

In the Southern region data, there were 16 other sites with case-percentages around the 10 percent mark. They are, in descending order of rank: Reesor Lake, Lake Newell, Beavermines Lake, Travers Reservoir, Chin Reservoir, Spruce Coulee Reservoir, Mami Lake, Keho Lake, Murray Reservoir, Sherburne Reservoir, Castle River, Bow River (Bassano to mouth), Elkwater Lake, Beauvais Lake, Rattlesnake/Sauder Reservoir, and Crowsnest River (Lundbreck to mouth).

For active Southern region respondents, the most visited general site was the Bow river, with a case-percentage of 45.2, and a response rate of 6.4. The second was the Crowsnest river with corresponding percentages of 16.2 and 2.3. All other general locations were not significant.

Of the 500-odd miscellaneous sites, only three stand out. Crawling Valley Reservoir, Highwood River, and Kananaskis Lake are well-visited locations with case-percentages of 10.5, 7.5, and 6.4 respectively.

Examining the distance travelled from home to the site for each fishing visit, the data for the entire set of respondents suggests that most people travel less than 100 miles per visit. The Southern region data parallels this trend, but with significantly higher percentage response rates (refer to Question 8C in Appendices A and B for values).

For both the entire set of responses and the Southern region angler responses, over 90 percent of responses indicate that the size of the party that went fishing was 1-4 persons, with a frequency peak at 2 people.

Again, for both sets of data, the most popular type of fish sought was trout (unspecified species), with 36.9 percent response rate over the entire survey, and 38.9 percent response rate for the Southern region. Within the trout category, rainbow trout was the most preferred catch. The second most sought after species was northern pike, with 24.5 and 26.6 percentages for the entire and Southern surveys. A bar chart depicting the most sought after species distribution can be found below.

In over 85 percent of cases over the entire survey, and in over 96 percent of cases over active

Southern respondents, 2 fish were caught. Over 50 percent of the time, 4 or less fish were caught. In line with these results, the typical number of fish released was 2, but the case percentages were lower with 78.8 percent of cases for the entire survey, and 84.5 percent of cases over the active Southern respondents. For percentage response over the entire data set, refer to Question 8F & 8G in Appendices A and B.

Over 75 percent of the respondents fished in a river or lake, with the majority fishing in a lake. Data for the southern region parallel that for the entire survey. In both cases, reservoirs were a distant second place, with approximately 9 percent of respondents fishing there.

Most fishing trips were one day in length, and over 90 percent of trips were 3 days or less in length.

DEMOGRAPHICS

The significant majority of survey respondents were male. The average age over the entire survey was 39.17 with a standard deviation of almost 12 years, and the active Southern respondent was slightly younger at 37.9 years with a standard deviation of 11 years.

Over half of the respondents for both sets of data did not have any children under the age of 16 years, and over ninety percent of the respondents did not have anyone over the age of 65 in their household. For those respondents that did, the children under the age of 16 and over the age of 65 usually did not go fishing.

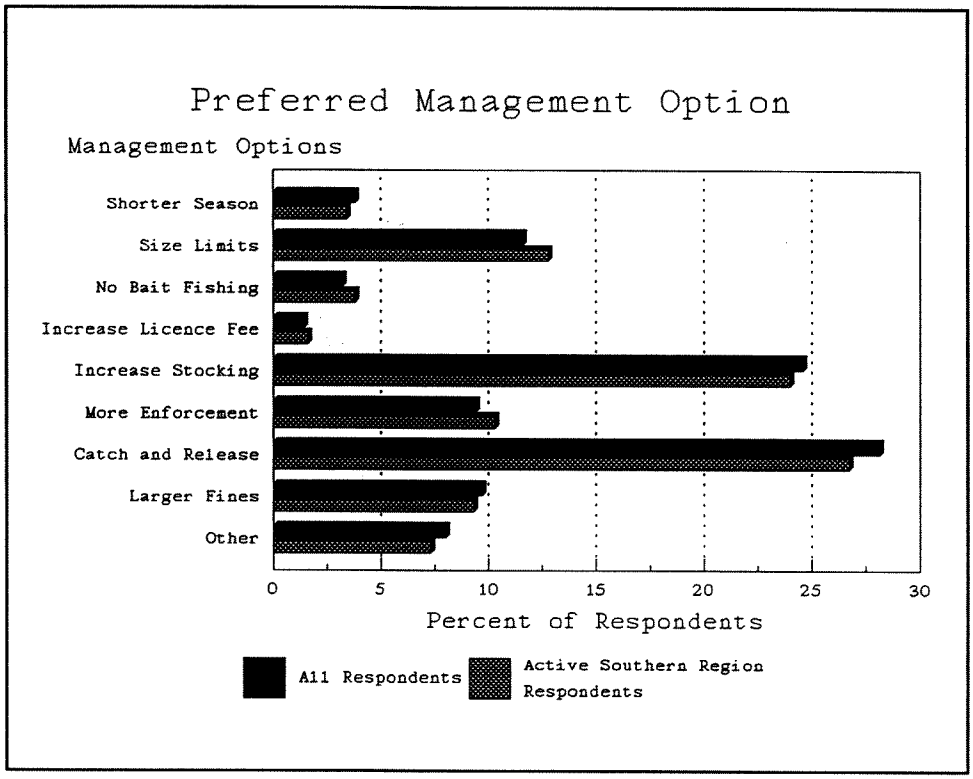
The average respondent across both data sets had 12 years of education. Average annual household income for the entire survey was close to $40,000, and slightly lower in the Southern Region respondents at about $35,000. There were frequency peaks at the $45,001-50,000 range for the entire set of responses, and at $45,001-50,000 for the Southern respondents, with 10.2 percent and 10.8 percent respectively.

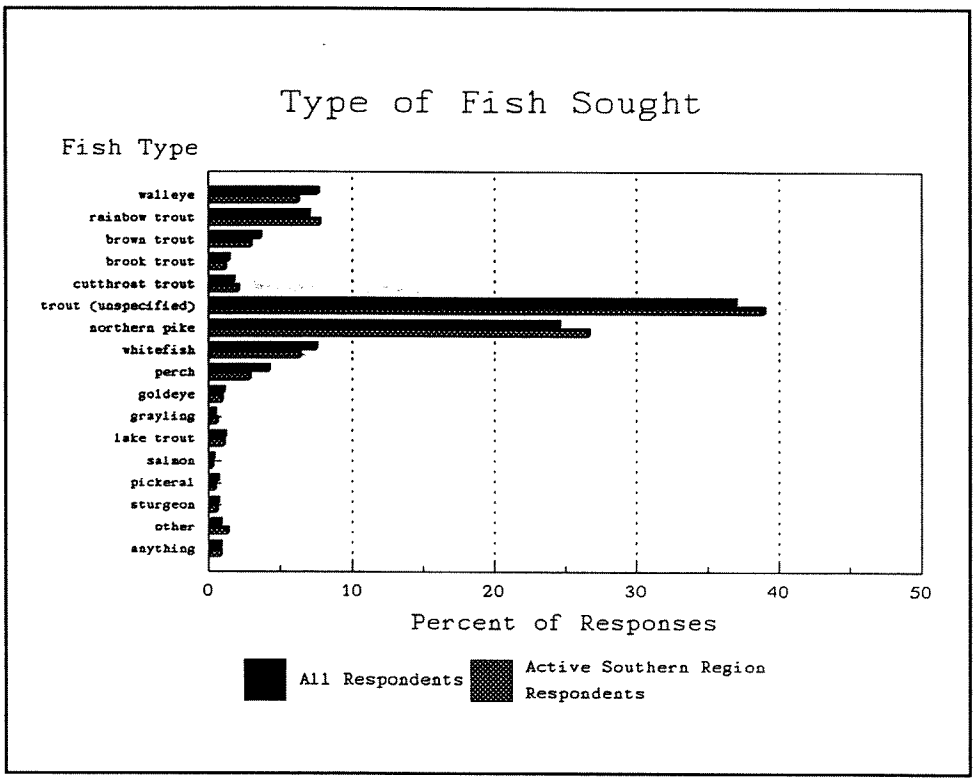
Most anglers worked (for pay) an average of 37 hours per week, with some flexibility allowed in working hours per week. The majority response was 40 hours per week for both the entire set of respondents and the active Southern respondents with percentage rates of 38 and 41 respectively.

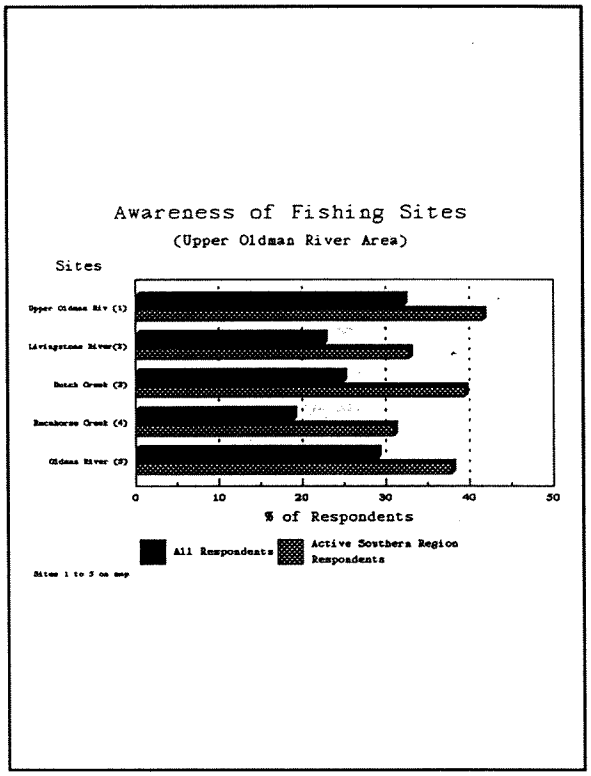
The majority of survey respondents' main occupation was in the professional and technical field. Following in second and third places were tradesman and service sector employees. On average, these workers got almost 13 days of paid vacation, and seldom took time off work to go fishing.

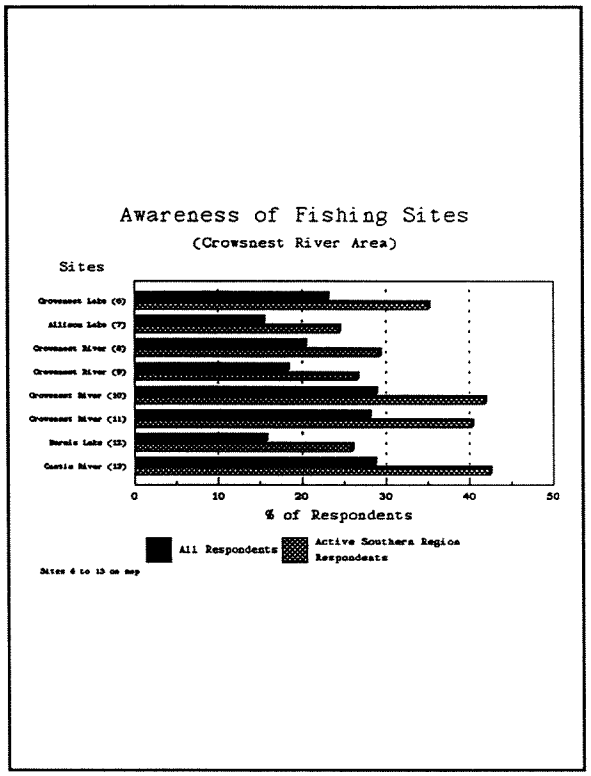
CONCLUSIONS

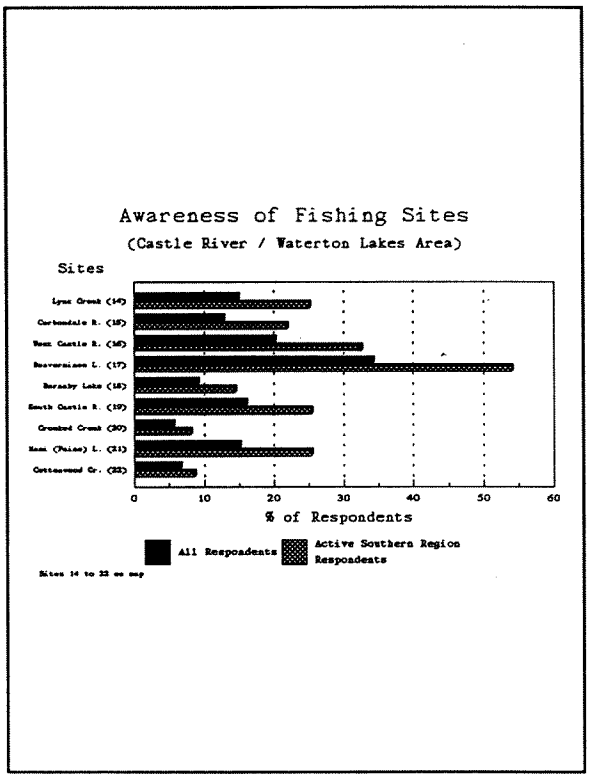
This interim report presents descriptive results of the 1991 survey of Southern Region recreational anglers. The report illustrates the popularity of recreational fishing in the Southern Region and it describes the data that have been collected for future use in modelling fishing site choice and value. This report has only scratched the surface in terms of analysis of these data. Only direct descriptive statistics have been presented. Further analysis will make use of the reports on approximately 11,000 fishing trips, the wide variety of types of anglers and the variety of preferences and opinions on the use and management of recreational fishery resources. While the descriptives are of interest in themselves, there is a great deal of information in this data set which will be of use to managers and decision makers now and in the future.

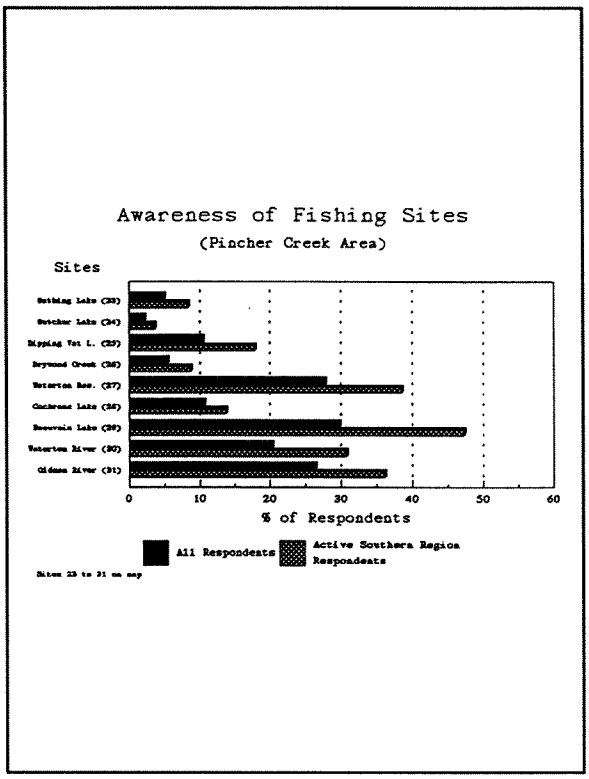

Preferred Management Option
Management Options
Shorter Season
Size Limits
No Bait Fishing
Increase Licence Fee
Increase Stocking
More Enforcement
Catch and Release
Larger Fines
Other
0
5
10
15
20
25
30
Percent of Respondents
All Respondents
Active Southern Region Respondents

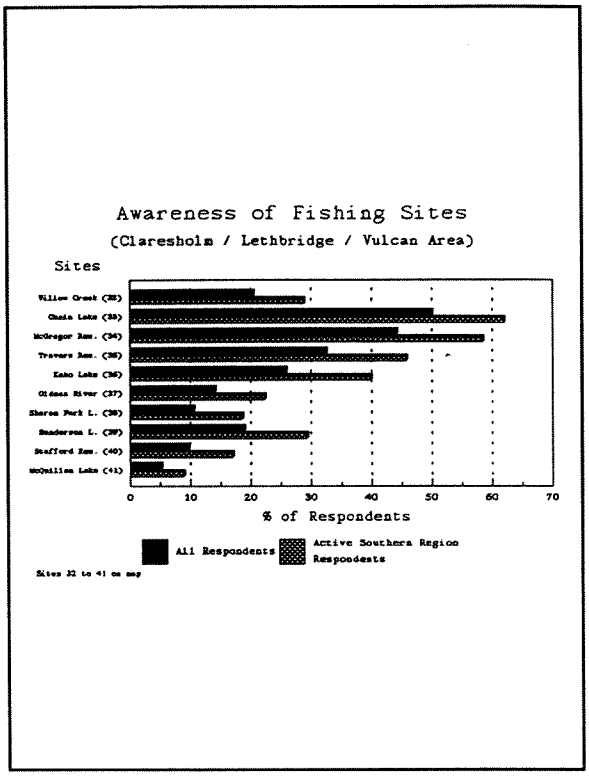

Type of Fish Sought
Fish Type
walleye
rainbow trout
brown trout
brook trout
cutthroat trout
trout (unspecified)
northern pike
whitefish
perch
goldeye
grayling
lake trout
salmon
pickeral
sturgeon
other
anything
0
10
20
30
40
50
Percent of Responses
All Respondents
Active Southern Region Respondents

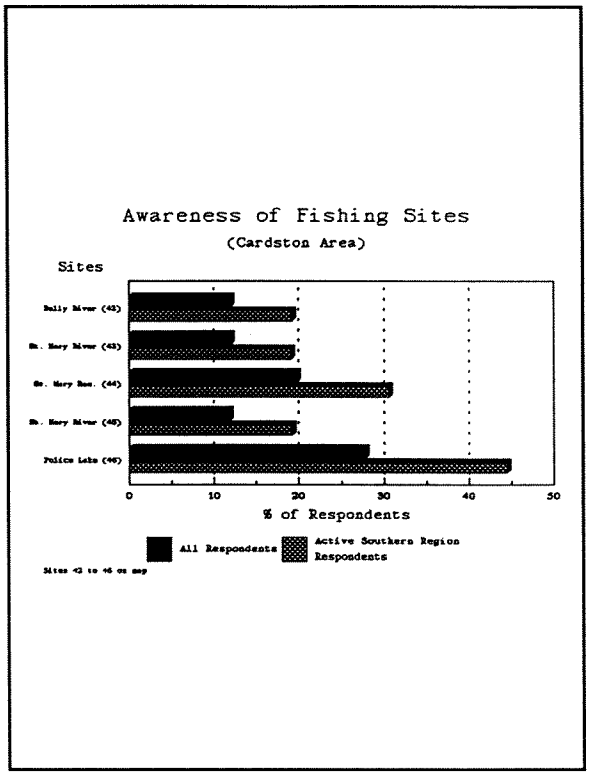

Awareness of Fishing Sites
(Upper Oldman River Area)
Sites
Upper Oldman Riv (1)
Livingstone River(3)
Dutch Creek (3)
Racehorse Creek (4)
Oldman River (5)
0
10
20
30
40
50
% of Respondents
All Respondents
Active Southern Region Respondents
Sites 1 to 5 on map

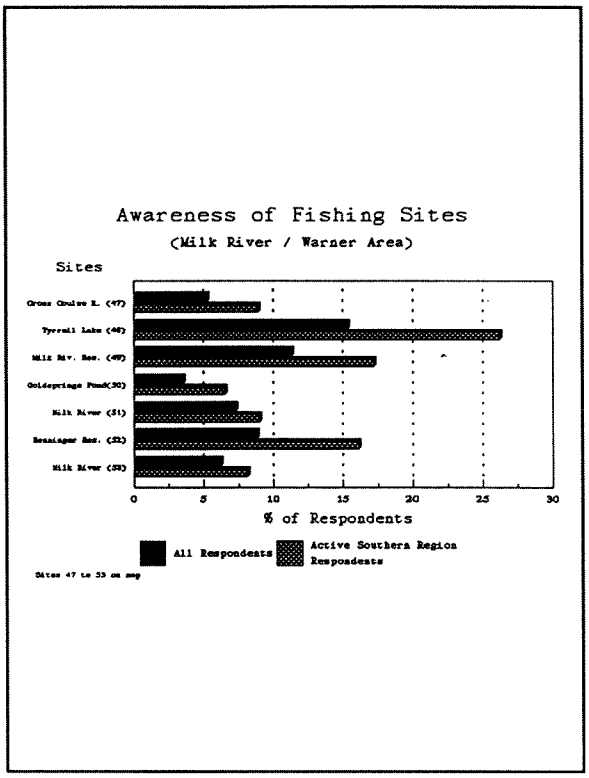

Awareness of Fishing Sites
(Crowsnest River Area)
Sites
Crowsnest Lake (6)
Allison Lake (7)
Crowsnest River (8)
Crowsnest River (9)
Crowsnest River (10)
Crowsnest River (11)
Burmis Lake (12)
Castle River (13)
0
10
20
30
40
50
% of Respondents
All Respondents
Active Southern Region Respondents
Sites 6 to 13 on map

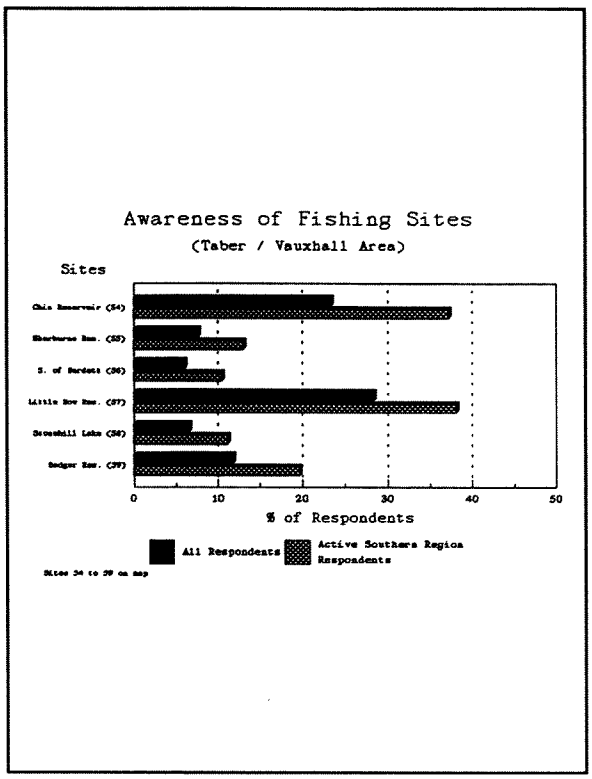

Awareness of Fishing Sites
(Castle River / Waterton Lakes Area)
Sites
0
10
20
30
40
50
60
% of Respondents
All Respondents
Active Southern Region Respondents

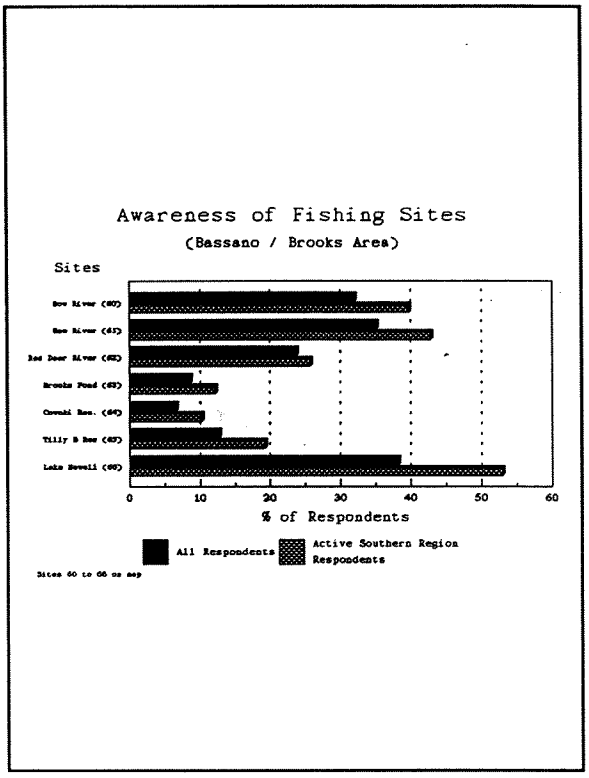

Awareness of Fishing Sites
(Pincher Creek Area)
Sites
0
10
20
30
40
50
60
% of Respondents
All Respondents
Active Southern Region Respondents

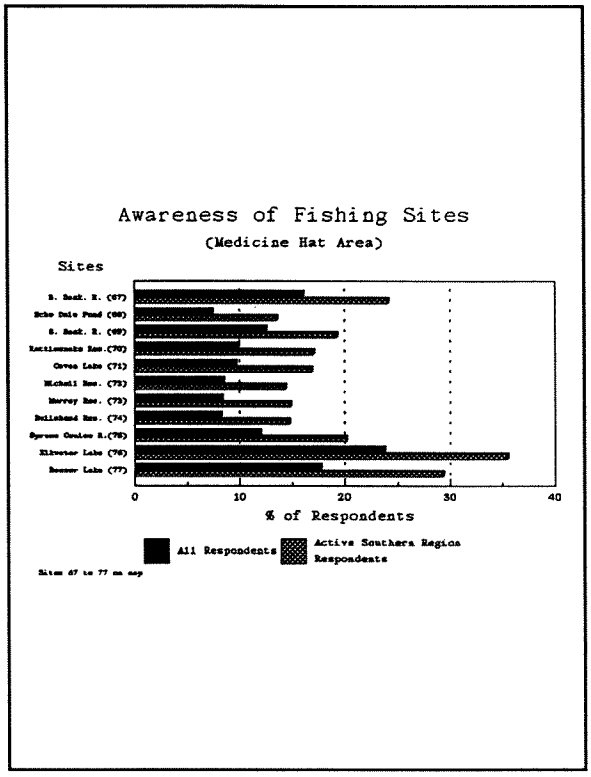

Awareness of Fishing Sites
(Claresholm / Lethbridge / Vulcan Area)
Sites
Willow Creek (32)
Chain Lake (33)
McGregor Res. (34)
Travers Res. (35)
Kako Lake (36)
Oldman River (37)
Sheran Park L. (38)
Henderson L. (39)
Stafford Res. (40)
McMillan Lake (41)
0
10
20
30
40
50
60
70
% of Respondents
All Respondents
Active Southern Region Respondents
Sites 32 to 41 on map


Awareness of Fishing Sites
(Cardston Area)
Sites
Belly River (42)
St. Mary River (43)
St. Mary Res. (44)
St. Mary River (45)
Police Lake (46)
0
10
20
30
40
50
% of Respondents
All Respondents
Active Southern Region Respondents
Sites 42 to 46 on map


Awareness of Fishing Sites
(Milk River / Warner Area)
Sites
Cross Coulee R. (47)
Tyrrell Lake (48)
Milk Riv. Res. (49)
Goldspring Pond(50)
Milk River (51)
Reesinger Res. (52)
Milk River (53)
0
5
10
15
20
25
30
% of Respondents
All Respondents
Active Southern Region Respondents
Sites 47 to 53 on map


Awareness of Fishing Sites
(Taber / Vauxhall Area)
Sites
Chin Reservoir (54)
Rhubarbe Res. (55)
S. of Burdett (56)
Little Bow Res. (57)
Stoneshill Lake (58)
Badger Res. (59)
0
10
20
30
40
50
% of Respondents
All Respondents
Active Southern Region Respondents
Sites 54 to 59 on map


Awareness of Fishing Sites
(Bassano / Brooks Area)
Sites
Bow River (60)
Bow River (61)
Red Deer River (62)
Brooks Pond (63)
Cowan Res. (64)
Tilly B Res (65)
Lake Newell (66)
0
10
20
30
40
50
60
% of Respondents
All Respondents
Active Southern Region Respondents
Sites 60 to 66 on map


Awareness of Fishing Sites
(Medicine Hat Area)
Sites
S. Sask. R. (67)
Echo Dale Pond (68)
S. Sask. R. (69)
Rattlesnake Res.(70)
Cavan Lake (71)
Michel Res. (72)
Murray Res. (73)
Bullshead Res. (74)
Spruce Coulee R.(75)
Elkwater Lake (76)
Reesor Lake (77)
0
10
20
30
40
% of Respondents
All Respondents
Active Southern Region Respondents
Sites 67 to 77 on map

APPENDIX A: DESCRIPTIVE STATISTICS
ALL RESPONDENTS

Question 1.1 Good chance to catch trophy-sized fish

VALUE LABEL	VALUE	FREQUENCY	PERCENT	VALID PERCENT	CUM PERCENT
not important	1	787	37.2	38.0	38.0
	2	378	17.9	18.3	56.3
somewhat important	3	614	29.0	29.7	86.0
	4	174	8.2	8.4	94.4
very important	5	116	5.5	5.6	100.0
	.0	46	2.2	MISSING	
	TOTAL	2115	100.0	100.0	

MEAN	2.253	MEDIAN	2.000	STD DEV	1.206
VARIANCE	1.455	MINIMUM	1.000	MAXIMUM	5.000

Question 1.2 Good chance to catch limit

VALUE LABEL	VALUE	FREQUENCY	PERCENT	VALID PERCENT	CUM PERCENT
not important	1	510	24.1	24.6	24.6
	2	393	18.6	19.0	43.6
somewhat important	3	641	30.3	30.9	74.5
	4	330	15.6	15.9	90.4
very important	5	199	9.4	9.6	100.0
	0	42	2.0	MISSING	
	TOTAL	2115	100.0	100.0	

MEAN	2.670	MEDIAN	3.000	STD DEV	1.268
VARIANCE	1.608	MINIMUM	1.000	MAXIMUM	5.000

Question 1.3 Good chance to catch preferred fish species

VALUE LABEL	VALUE	FREQUENCY	PERCENT	VALID PERCENT	CUM PERCENT
not important	1	332	15.7	16.1	16.1
	2	186	8.8	9.0	25.2
somewhat important	3	625	29.6	30.4	55.5
	4	529	25.0	25.7	81.2
very important	5	387	18.3	18.8	100.0
	0	56	2.6	MISSING	
	TOTAL	2115	100.0	100.0	

MEAN	3.220	MEDIAN	3.000	STD DEV	1.302
VARIANCE	1.696	MINIMUM	1.000	MAXIMUM	5.000

Question 1.4 Knowing that the lake is stocked with fish

VALUE LABEL	VALUE	FREQUENCY	PERCENT	VALID PERCENT	CUM PERCENT
not important	1	288	13.6	14.1	14.1
	2	235	11.1	11.5	25.6
somewhat important	3	574	27.1	28.1	53.6
	4	345	16.3	16.9	70.5
very important	5	604	28.6	29.5	100.0
	0	69	3.3	MISSING	
	TOTAL	2115	100.0	100.0	

MEAN	3.363	MEDIAN	3.000	STD DEV	1.377
VARIANCE	1.897	MINIMUM	1.000	MAXIMUM	5.000

Question 1.5 Privacy from other anglers

VALUE LABEL	VALUE	FREQUENCY	PERCENT	VALID PERCENT	CUM PERCENT
not important	1	266	12.6	12.9	12.9
	2	249	11.8	12.1	25.0
somewhat important	3	623	29.5	30.3	55.3
	4	489	23.1	23.7	79.0
very important	5	432	20.4	21.0	100.0
	0	56	2.6	MISSING	
	TOTAL	2115	100.0	100.0	

MEAN	3.278	MEDIAN	3.000	STD DEV	1.280
VARIANCE	1.638	MINIMUM	1.000	MAXIMUM	5.000

Question 1.6 Natural beauty of surroundings

VALUE LABEL	VALUE	FREQUENCY	PERCENT	VALID PERCENT	CUM PERCENT
not important	1	68	3.2	3.3	3.3
	2	71	3.4	3.4	6.7
somewhat important	3	404	19.1	19.5	26.2
	4	612	28.9	29.6	55.8
very important	5	914	43.2	44.2	100.0
	0	46	2.2	MISSING	
	TOTAL	2115	100.0	100.0	

MEAN	4.079	MEDIAN	4.000	STD DEV	1.032
VARIANCE	1.064	MINIMUM	1.000	MAXIMUM	5.000

Question 1.7 Water quality

VALUE LABEL	VALUE	FREQUENCY	PERCENT	VALID PERCENT	CUM PERCENT
not important	1	18	.9	.9	.9
	2	21	1.0	1.0	1.9
somewhat important	3	216	10.2	10.5	12.4
	4	510	24.1	24.8	37.2
very important	5	1294	61.2	62.8	100.0
	.0	56	2.6	MISSING	
	TOTAL	2115	100.0	100.0	

MEAN	4.477	MEDIAN	5.000	STD DEV	.791
VARIANCE	.626	MINIMUM	1.000	MAXIMUM	5.000

Question 1.8 Access to wilderness areas

VALUE LABEL	VALUE	FREQUENCY	PERCENT	VALID PERCENT	CUM PERCENT
not important	1	242	11.4	11.8	11.8
	2	239	11.3	11.7	23.5
somewhat important	3	645	30.5	31.5	55.0
	4	453	21.4	22.1	77.1
very important	5	468	22.1	22.9	100.0
	0	68	3.2	MISSING	
	TOTAL	2115	100.0	100.0	

MEAN	3.325	MEDIAN	3.000	STD DEV	1.273
VARIANCE	1.620	MINIMUM	1.000	MAXIMUM	5.000

Question 1.9 Site limited to fly fishing

VALUE LABEL	VALUE	FREQUENCY	PERCENT	VALID PERCENT	CUM PERCENT
not important	1	1210	57.2	59.1	59.1
	2	323	15.3	15.8	74.9
somewhat important	3	266	12.6	13.0	87.9
	4	117	5.5	5.7	93.6
very important	5	130	6.1	6.4	100.0
	0	69	3.3	MISSING	
	TOTAL	2115	100.0	100.0	

MEAN	1.844	MEDIAN	1.000	STD DEV	1.224
VARIANCE	1.498	MINIMUM	1.000	MAXIMUM	5.000

Question 1.10 Distance from home

VALUE LABEL	VALUE	FREQUENCY	PERCENT	VALID PERCENT	CUM PERCENT
not important	1	264	12.5	12.8	12.8
	2	201	9.5	9.7	22.5
somewhat important	3	1001	47.3	48.4	70.9
	4	352	16.6	17.0	87.9
very important	5	251	11.9	12.1	100.0
	0	46	2.2	MISSING	
	TOTAL	2115	100.0	100.0	

MEAN	3.060	MEDIAN	3.000	STD DEV	1.122
VARIANCE	1.260	MINIMUM	1.000	MAXIMUM	5.000

Question 1.11 Familiarity with the area

VALUE LABEL	VALUE	FREQUENCY	PERCENT	VALID PERCENT	CUM PERCENT
not important	1	320	15.1	15.6	15.6
	2	314	14.8	15.3	30.9
somewhat important	3	882	41.7	42.9	73.8
	4	356	16.8	17.3	91.1
very important	5	182	8.6	8.9	100.0
	0	61	2.9	MISSING	
	TOTAL	2115	100.0	100.0	

MEAN	2.886	MEDIAN	3.000	STD DEV	1.136
VARIANCE	1.291	MINIMUM	1.000	MAXIMUM	5.000

Question 1.12 Owning land or a cabin near the site

VALUE LABEL	VALUE	FREQUENCY	PERCENT	VALID PERCENT	CUM PERCENT
not important	1	1646	77.8	80.1	80.1
	2	199	9.4	9.7	89.8
somewhat important	3	114	5.4	5.5	95.3
	4	44	2.1	2.1	97.5
very important	5	52	2.5	2.5	100.0
	0	60	2.8	MISSING	
	TOTAL	2115	100.0	100.0	

MEAN	1.373	MEDIAN	1.000	STD DEV	.882
VARIANCE	.777	MINIMUM	1.000	MAXIMUM	5.000

Question 1.13 Good road access to the site

VALUE LABEL	VALUE	FREQUENCY	PERCENT	VALID PERCENT	CUM PERCENT
not important	1	344	16.3	16.7	16.7
	2	274	13.0	13.3	30.0
somewhat important	3	686	32.4	33.3	63.2
	4	426	20.1	20.7	83.9
very important	5	332	15.7	16.1	100.0
	0	53	2.5	MISSING	
	TOTAL	2115	100.0	100.0	

MEAN	3.062	MEDIAN	3.000	STD DEV	1.284
VARIANCE	1.648	MINIMUM	1.000	MAXIMUM	5.000

Question 1.14 Site with boat access

VALUE LABEL	VALUE	FREQUENCY	PERCENT	VALID PERCENT	CUM PERCENT
not important	1	789	37.3	38.3	38.3
	2	265	12.5	12.9	51.2
somewhat important	3	477	22.6	23.2	74.4
	4	246	11.6	12.0	86.3
very important	5	281	13.3	13.7	100.0
	0	57	2.7	MISSING	
	TOTAL	2115	100.0	100.0	

MEAN	2.497	MEDIAN	2.000	STD DEV	1.441
VARIANCE	2.076	MINIMUM	1.000	MAXIMUM	5.000

Question 1.15 Picnic/camping facilities at or near site

VALUE LABEL	VALUE	FREQUENCY	PERCENT	VALID PERCENT	CUM PERCENT
not important	1	461	21.8	22.4	22.4
	2	230	10.9	11.2	33.5
somewhat important	3	541	25.6	26.2	59.7
	4	420	19.9	20.4	80.1
very important	5	410	19.4	19.9	100.0
	0	53	2.5	MISSING	
	TOTAL	2115	100.0	100.0	

MEAN	3.043	MEDIAN	3.000	STD DEV	1.416
VARIANCE	2.004	MINIMUM	1.000	MAXIMUM	5.000

Question 1.16 Friends or relatives live nearby

VALUE LABEL	VALUE	FREQUENCY	PERCENT	VALID PERCENT	CUM PERCENT
not important	1	1712	80.9	82.5	82.5
	2	213	10.1	10.3	92.8
somewhat important	3	99	4.7	4.8	97.5
	4	28	1.3	1.3	98.9
very important	5	23	1.1	1.1	100.0
	. 0	40	1.9	MISSING	
	TOTAL	2115	100.0	100.0	

MEAN	1.283	MEDIAN	1.000	STD DEV	.716
VARIANCE	.513	MINIMUM	1.000	MAXIMUM	5.000

Question 2 Information about trips to your favorite fishing site

Question 2A Approximately how many years have you fished at this site?

VALUE	FREQ	PCT	CUM PCT	VALUE	FREQ	PCT	CUM PCT	VALUE	FREQ	PCT	CUM PCT
0	45	2	2	14	13	1	74	29	1	0	94
1	120	6	8	15	144	7	81	30	52	3	97
2	182	9	17	16	16	1	81	33	1	0	97
3	199	10	26	17	11	1	82	34	4	0	97
4	125	6	32	18	15	1	83	35	13	1	98
5	251	12	44	19	2	0	83	36	1	0	98
6	99	5	49	20	148	7	90	38	1	0	98
7	62	3	52	21	2	0	90	40	24	1	99
8	81	4	56	22	8	0	90	45	7	0	99
9	9	0	56	23	7	0	91	46	1	0	99
10	283	14	70	24	2	0	91	50	6	0	100
11	12	1	71	25	68	3	94	55	2	0	100
12	44	2	73	26	3	0	94	57	1	0	100
13	9	0	73	28	3	0	94	60	2	0	100

M I S S I N G D A T A

VALUE	FREQ
99	36

MEAN	9.975	MEDIAN	7.000	STD DEV	9.200
VARIANCE	84.649	MINIMUM	.000	MAXIMUM	60.000

Question 2B Approximately how many times have you visited this site in the last 5 years ?

VALUE LABEL	VALUE	FREQUENCY	PERCENT	VALID PERCENT	CUM PERCENT
less than 5	1	379	17.9	18.5	18.5
6-10'	2	502	23.7	24.6	43.1
11-15	3	255	12.1	12.5	55.6
6-20	4	221	10.4	10.8	66.4
21-30	5	243	11.5	11.9	78.3
more than 30	6	444	21.0	21.7	100.0
	0	71	3.4	MISSING	
	TOTAL	2115	100.0	100.0	

MEAN	3.381	MEDIAN	3.000	STD DEV	1.839
VARIANCE	3.382	MINIMUM	1.000	MAXIMUM	6.000

Question 2C How did you first become aware of this site?

VALUE LABEL	VALUE	FREQUENCY	PERCENT	VALID PERCENT	CUM PERCENT
from family member	1	336	15.9	16.5	16.5
from friends	2	764	36.1	37.5	54.0
word of mouth, general	3	281	13.3	13.8	67.8
Alberta Fishing guide	4	16	.8	.8	68.6
tourist info, (pamphlets, highway signs, derbies)	5	78	3.7	3.8	72.4
random chance, (includes hiking camping, driving)	6	311	14.7	15.3	87.7
close to home	7	159	7.5	7.8	95.5
do not have a favorite	8	24	1.1	1.2	96.7
miscellaneous, paid guide	9	17	.8	.8	97.5
maps	10	20	.9	1.0	98.5
do not remember	11	5	.2	.2	98.8
while hunting	12	25	1.2	1.2	100.0
	0	79	3.7	MISSING	
	TOTAL	2115	100.0	100.0	

MEAN	3.458	MEDIAN	2.000	STD DEV	2.417
VARIANCE	5.842	MINIMUM	1.000	MAXIMUM	12.000

Question 2D What are the specific things about this site that you particularly enjoy?

CATEGORY LABEL	CODE	COUNT	PCT OF RESPONSES	PCT OF CASES
large fish	1	126	3.2	6.2
good fishing (catch rate)	2	732	18.4	36.2
fish are stocked	3	40	1.0	2.0
numerous variety of species	4	53	1.3	2.6
favorite species present	5	126	3.2	6.2
type of fishing (fly, boat etc)	6	66	1.7	3.3
seclusion, quietness	7	619	15.5	30.6
road access	8	215	5.4	10.6
boat access	9	44	1.1	2.2
commercial facilities (stores etc)	10	6	0.2	0.3
camping/picnic facilities	11	310	7.8	15.3
facilities (unspecified)	12	48	1.2	2.4
close to home/worksite	13	241	6.0	11.9
water quality	14	204	5.1	10.1
scenic quality	15	624	15.7	30.8
fresh air	16	18	0.5	0.9
open fires allowed	17	3	0.1	0.1
outdoor experience (general)	18	137	3.4	6.8
other campers (friendliness)	19	19	0.5	0.9
familiarity with site	20	17	0.4	0.8
presence of other wildlife	21	45	1.1	2.2
undeveloped, wilderness	22	137	3.4	6.8
do not have a favorite site	23	24	0.6	1.2
patrolled by fish and wildlife officers	24	2	0.1	0.1
size of lake	25	33	0.8	1.6
clean, unpolluted, general	26	77	1.9	3.8
own land or cabin nearby	27	8	0.2	0.4
free camping	28	11	0.3	0.5
	TOTAL RESPONSES	3985	100.0	196.9

91 MISSING CASES 2024 VALID CASES

Question 3 Information about typical fishing trips

Question 3A What type of transport do you usually use to go from your home to a fishing site?

VALUE LABEL	VALUE	FREQUENCY	PERCENT	VALID PERCENT	CUM PERCENT
walk/bicycle	1	52	2.5	2.5	2.5
motorbike/ATV	2	14	.7	.7	3.2
car/truck/van	3	1518	71.8	74.3	77.5
camper/RV	4	444	21.0	21.7	99.2
other	5	16	.8	.8	100.0
	0	71	3.4	MISSING	
	TOTAL	2115	100.0	100.0	

Question 3A.1 Other transport to fishing site

VALUE LABEL	VALUE	FREQUENCY	PERCENT	VALID PERCENT	CUM PERCENT
airplane	1	6	37.5	46.2	46.2
horse	2	5	31.2	38.5	84.7
boat	3	2	12.5	15.3	100.0
	4	3	18.8	MISSING	
	TOTAL	16	100.0	100.0	

Question 3B How long do you stay at the site on a typical trip to a fishing site?

VALUE LABEL	VALUE	FREQUENCY	PERCENT	VALID PERCENT	CUM PERCENT
1-2 hours	1	89	4.2	4.3	4.3
half day	2	472	22.3	22.8	27.1
full day	3	720	34.0	34.7	61.8
2-3 days	4	650	30.7	31.4	93.2
greater than 3 days	5	142	6.7	6.8	100.0
	0	42	2.0	MISSING	
	TOTAL	2115	100.0	100.0	

Question 3C Generally speaking, how enjoyable do you find the time spent travelling to the fishing site?

VALUE LABEL	VALUE	FREQUENCY	PERCENT	VALID PERCENT	CUM PERCENT
very unenjoyable	1	101	4.8	4.8	4.8
	2	212	10.0	10.2	15.0
	3	881	41.7	42.2	57.2
	4	493	23.3	23.6	80.8
very enjoyable	5	401	19.0	19.2	100.0
	0	27	1.3	MISSING	
	TOTAL	2115	100.0	100.0	

MEAN	3.422	MEDIAN	3.000	STD DEV	1.059
VARIANCE	1.122	MINIMUM	1.000	MAXIMUM	5.000

Question 3D What type of fishing do you usually do?

VALUE LABEL	VALUE	FREQUENCY	PERCENT	VALID PERCENT	CUM PERCENT
bait fishing	1	421	19.9	22.1	22.1
spin casting	2	863	40.8	45.3	67.3
trolling	3	271	12.8	14.2	81.5
fly fishing	4	301	14.2	15.8	97.3
ice fishing	5	51	2.4	2.7	100.0
	0	208	9.8	MISSING	
	TOTAL	2115	100.0	100.0	

Question 3E What method of fishing do you usually use?

VALUE LABEL	VALUE	FREQUENCY	PERCENT	VALID PERCENT	CUM PERCENT
from shore	1	1246	58.9	61.4	61.4
motorboat	2	558	26.4	27.5	88.9
canoe/rowing	3	120	5.7	5.9	94.8
other	4	105	5.0	5.2	100.0
	0	86	4.1	MISSING	
	TOTAL	2115	100.0	100.0	

Question 3E.1 Other methods of fishing used

VALUE LABEL	VALUE	FREQUENCY	PERCENT	VALID PERCENT	CUM PERCENT
float	1	7	6.7	29.2	29.2
wading	2	15	14.3	62.5	91.7
ice fishing	3	2	1.9	8.3	100.0
	4	81	77.1	MISSING	
	TOTAL	105	100.0	100.0	

Question 3F In pounds, approximately how much fish do you take home on a typical fishing trip?

VALUE LABEL	VALUE	FREQUENCY	PERCENT	VALID PERCENT	CUM PERCENT
< 1 lb	1	561	26.5	26.8	26.8
1-4 lb	2	1054	49.8	50.4	77.2
5-10 lb	3	402	19.0	19.2	96.5
> 10 lb	4	74	3.5	3.5	100.0
	0	24	1.1	MISSING	
	TOTAL	2115	100.0	100.0	

Question 3G Approximately how many years of fishing experience do you have?

VALUE	FREQUENCY	PERCENT	CUMULATIVE PERCENT
0-4	118	5.7	5.7
5-9	177	8.5	14.2
10-14	272	13.1	27.3
15-19	267	12.9	40.2
20-24	368	17.8	58.0
25-29	255	12.3	70.3
30-34	258	12.5	82.8
35-39	122	5.9	88.7
40-44	128	6.2	94.9
45-49	48	2.3	97.2
50-54	41	2.0	99.2
55-59	13	0.6	99.8
60-64	5	0.2	100.0
99	43	MISSING	

MEAN	21.467	MEDIAN	20.000	STD DEV	12.225
VARIANCE	149.442	MINIMUM	.000	MAXIMUM	60.000

Question 3H Do you practice catch and release fishing?

VALUE LABEL	VALUE	FREQUENCY	PERCENT	VALID PERCENT	CUM PERCENT
yes	1	1651	78.1	78.5	78.5
no	2	452	21.4	21.5	100.0
	0	12	.6	MISSING	
	TOTAL	2115	100.0	100.0	

Question 3I How far ahead do you usually plan fishing trips?

VALUE LABEL	VALUE	FREQUENCY	PERCENT	VALID PERCENT	CUM PERCENT
on the same day	1	162	7.7	7.8	7.8
day before	2	325	15.4	15.6	23.4
few days before	3	769	36.4	37.0	60.4
a week before	4	410	19.4	19.7	80.1
few weeks before	5	291	13.8	14.0	94.1
more than a month before	6	123	5.8	5.9	100.0
	0	35	1.7	MISSING	
	TOTAL	2115	100.0	100.0	

Question 3J Who do you usually go fishing with?

VALUE LABEL	VALUE	FREQUENCY	PERCENT	VALID PERCENT	CUM PERCENT
spouse	1	376	17.8	18.7	18.7
friends	2	773	36.5	38.4	57.1
family	3	727	34.4	36.2	93.3
nobody	4	135	6.4	6.7	100.0
	0	104	4.9	MISSING	
	TOTAL	2115	100.0	100.0	

Question 4 If overfishing becomes a problem in Alberta lakes and rivers, which of the following management options would you most like to see used to address the problem?

VALUE LABEL	VALUE	FREQUENCY	PERCENT	VALID PERCENT	CUM PERCENT
shorter season	1	81	3.8	3.9	3.9
size limit	2	246	11.6	11.8	15.6
no bait fishing	3	66	3.1	3.2	18.8
increase licence fees	4	30	1.4	1.4	20.2
increase stocking	5	514	24.3	24.6	44.8
more enforcement	6	197	9.3	9.4	54.2
catch and release	7	588	27.8	28.1	82.3
larger fines for violations	8	203	9.6	9.7	92.0
other	9	168	7.9	8.0	100.0
	0	22	1.0	MISSING	
	TOTAL	2115	100.0	100.0	

Question 4.1 alternate management option (if other chosen)

VALUE LABEL	VALUE	FREQUENCY	PERCENT	VALID PERCENT	CUM PERCENT
no management needed	0	12	7.1	7.6	7.6
combination of above	1	111	66.1	70.3	77.9
rotational closures,	2	3	1.8	1.9	79.8
barbless hooks	3	1	0.6	0.6	80.4
no commercial fishin	4	10	6.0	6.3	86.7
smaller limits, seas	5	8	4.8	5.1	91.8
no fishing at all	6	1	0.6	0.6	92.4
less netting, (winte	7	11	6.5	7.0	99.4
increase licence fee	8	1	0.5	0.6	100.0
	9	10	6.0	MISSING	
	TOTAL	168	100.0	100.0	

Question 5 How much do you spend on fishing over a typical fishing season?

VALUE LABEL	VALUE	FREQUENCY	PERCENT	VALID PERCENT	CUM PERCENT
$0-$50	1	149	7.0	7.1	7.1
$51-$100	2	313	14.8	14.9	22.0
$101-$200	3	358	16.9	17.0	39.0
$201-$300	4	365	17.3	17.4	56.3
$301-$500	5	415	19.6	19.7	76.1
> $501	6	503	23.8	23.9	100.0
	0	12	.6	MISSING	
	TOTAL	2115	100.0	100.0	

MEAN	3.995	MEDIAN	4.000	STD DEV	1.600
VARIANCE	2.558	MINIMUM	1.000	MAXIMUM	6.000

Question 6 Did you go sportfishing in Alberta in 1990?

VALUE LABEL	VALUE	FREQUENCY	PERCENT	VALID PERCENT	CUM PERCENT
yes	1	1847	87.3	88.0	88.0
no	2	253	12.0	12.0	100.0
	0	15	.7	MISSING	
	TOTAL	2115	100.0	100.0	

Question 7 Which of the following sites have you ever visited or heard of as a fishing site?

SITE NAME	UNAWARE OF SITE FREQUENCY	PERCENT	AWARE OF SITE FREQUENCY	PERCENT
Upper Oldman River	1433	67.8	682	32.2
Livingstone River	1636	77.4	479	22.6
Dutch Creek	1589	75.1	526	24.9
Racehorse Creek	1715	81.1	400	18.9
Oldman River, Hwy 22 bridge to Peigan Reserve	1501	71.0	614	29.0
Crowsnest Lake	1629	77.0	486	23.0
Allison (Chinook) Lake	1792	84.7	323	15.3
Crowsnest River, headwaters to Blairmore (Legion bridge)	1685	79.7	430	20.3
Crowsnest River,Blairmore to Passberg bridge (Byron Cr)	1730	81.8	385	18.2
Crowsnest River,Passberg bridge to Lundbreck Falls	1509	71.3	606	28.7
Crowsnest River,Lundbreck Falls to mouth (Blairmore Pincher Cr)	1522	72.0	593	28.0
Burmis Lake	1786	84.4	329	15.6
Castle River	1510	71.4	605	28.6
Lynx Creek	1802	85.2	313	14.8
Carbondale River	1846	87.3	269	12.7
West Castle River	1690	79.9	425	20.1
Beavermines Lake	1394	65.9	721	34.1
Barnaby (Southfork) Lake	1924	91.0	191	9.0
South Castle River	1778	84.1	337	15.9
Crooked Creek	1998	94.5	117	5.5
Mami (Paine) Lake	1798	85.0	317	15.0
Cottonwood Creek	1977	93.5	138	6.5
Bathing Lake	2012	95.1	103	4.9
Butcher Lake	2070	97.9	45	2.1
Dipping Vat Lake	1896	89.6	219	10.4
Drywood Creek	2000	94.6	115	5.4
Waterton Reservoir	1529	72.3	586	27.7
Cochrane Lake	1890	89.4	225	10.6
Beauvais Lake	1487	70.3	628	29.7
Waterton River	1688	79.8	427	20.2
Oldman River at Fort MacLeod	1559	73.7	556	26.3
Willow Creek	1685	79.7	430	20.3
Chain Lake	1057	50.0	1058	50.0
McGregor Reservoir	1182	55.9	933	44.1
Travers Reservoir	1430	67.6	685	32.4
Keho Lake	1571	74.3	544	25.7
Oldman River-Monarch to Forks	1821	86.1	294	13.9
Nicholas Sheran Park Lake	1896	89.6	219	10.4
Henderson Lake	1718	81.2	397	18.8
Stafford Reservoir	1911	90.4	204	9.6
McQuillan Lake	2007	94.9	108	5.1

Question 7 (Continued) Which of the following sites have you ever visited or heard of as a fishing site?

SITE NAME	UNAWARE OF SITE FREQUENCY	UNAWARE OF SITE PERCENT	AWARE OF SITE FREQUENCY	AWARE OF SITE PERCENT
Belly River	1861	88.0	254	12.0
St Mary River, Upper to Reservoir	1861	88.0	254	12.0
St Mary Reservoir	1696	80.2	419	19.8
St Mary River below Reservoir	1866	88.2	249	11.8
Police (Outpost) Lake	1527	72.2	588	27.8
Cross Coulee Reservoir	2005	94.8	110	5.2
Tyrrell Lake	1791	84.7	324	15.3
Milk River Ridge Reservoir	1875	88.7	240	11.3
Goldsprings Park pond	2041	96.5	74	3.5
Milk River, mouth of the N. Milk River to Miners Coulee Creek	1961	92.7	154	7.3
Heninger Reservoir	1928	91.2	187	8.8
Milk River, Miners Coulee Creek to Montana border	1984	93.8	131	6.2
Chin Reservoir	1622	76.7	493	23.3
Sherburne Reservoir	1955	92.4	160	7.6
Lake south of Burdett	1989	94.0	126	6.0
Little Bow Reservoir	1517	71.7	598	28.3
Stonehill Lake	1977	93.5	138	6.5
Badger Reservoir	1867	88.3	248	11.7
Bow River Bassano Dam to mouth	1439	68.0	676	32.0
Bow River Carseland to Bassano	1373	64.9	742	35.1
Red Deer River, Finegan to Dinosaur Provincial Park	1614	76.3	501	23.7
Brooks childrens pond	1933	91.4	182	8.6
Cowoki Reservoir	1976	93.4	139	6.6
Tilly B Reservoir	1847	87.3	268	12.7
Lake Newell	1308	61.8	807	38.2
South Saskatchewan River, Rattlesnake to Saskatchewan border	1777	84.0	338	16.0
Echo Dale Regional Park pond	1958	92.6	157	7.4
South Saskatchewan River, Forks to Rattlesnake	1850	87.5	265	12.5
Rattlesnake/Sauder Reservoir	1908	90.2	207	9.8
Cavan Lake	1913	90.4	202	9.6
Michell Reservoir	1937	91.6	178	8.4
Murray Reservoir	1940	91.7	175	8.3
Bullshead Reservoir	1941	91.8	174	8.2
Spruce Coulee Reservoir	1863	88.1	252	11.9
Elkwater Lake	1614	76.3	501	23.7
Reesor Lake	1740	82.3	375	17.7

Question 8A How many trips did you take in 1990?

VALUE	FREQ	PCT	CUM PCT	VALUE	FREQ	PCT	CUM PCT	VALUE	FREQ	PCT	CUM PCT
1	172	10	10	17	6	0	86	35	7	0	97
2	166	10	20	18	10	1	87	36	1	0	97
3	216	13	32	19	4	0	87	38	3	0	97
4	164	10	42	20	51	3	90	39	1	0	97
5	153	9	51	21	1	0	90	40	14	1	98
6	119	7	58	22	4	0	90	41	1	0	98
7	95	6	63	23	2	0	90	42	1	0	98
8	77	4	68	24	5	0	91	45	5	0	98
9	71	4	72	25	35	2	93	48	1	0	98
10	62	4	75	26	1	0	93	50	15	1	99
11	46	3	78	27	1	0	93	52	1	0	99
12	40	2	80	28	4	0	93	60	3	0	99
13	19	1	82	29	1	0	93	61	1	0	99
14	17	1	83	30	52	3	96	70	3	0	100
15	51	3	86	33	1	0	96	75	2	0	100
16	6	0	86	34	1	0	96	99	4	0	100

M I S S I N G D A T A

VALUE	FREQ
0	399

MEAN	9.124	MEDIAN	5.000	STD DEV	10.970
VARIANCE	120.340	MINIMUM	1.000	MAXIMUM	99.000

Question 8B Site of fishing trips

SITE NAME	CODE	COUNT	PCT OF RESPONSES	PCT OF CASES
Upper Oldman River, (NW Branch)	1	63	0.6	3.7
Livingstone River	2	51	0.5	3.0
Dutch Creek	3	62	0.6	3.6
Racehorse Creek	4	38	0.4	2.2
Oldman River; Hwy 22 bridge to Peigan Reserve	5	37	0.3	2.2
Crowsnest Lake	6	42	0.4	2.5
Chinook Lake (Allison Lake)	7	37	0.3	2.2
Crowsnest River; headwaters to Blairmore (Legion bridge)	8	11	0.1	0.6
Crowsnest River; Blairmore to Passberg bridge (Byron Creek)	9	12	0.1	0.7
Crowsnest River; Passberg bridge to Lundbreck Falls	10	49	0.5	2.9
Crowsnest River; Lundbreck Falls to mouth (Blairmore Pincher Creek areas)	11	79	0.7	4.6
Burmis Lake	12	7	0.1	0.4
Castle River	13	90	0.8	5.3
Lynx Creek	14	40	0.4	2.4
Carbondale River	15	42	0.4	2.5
West Castle River	16	48	0.4	2.8
Beavermines Lake	17	172	1.6	10.1
Barnaby (Southfork) Lake	18	4	0.0	0.2
South Castle River	19	43	0.4	2.5
Crooked Creek	20	4	0.0	0.2
Mami (Paine) Lake	21	106	1.0	6.2
Cottonwood Creek	22	4	0.0	0.2
Bathing Lake	23	13	0.1	0.8
Butcher Lake	24	1	0.0	0.1
Dipping Vat Lake	25	20	0.2	1.2
Waterton Reservoir	27	35	0.3	2.1
Cochrane Lake	28	19	0.2	1.1
Beauvais Lake	29	83	0.8	4.9
Waterton River	30	27	0.2	1.6
Oldman River - near Fort MacLeod	31	17	0.2	1.0
Willow Creek	32	26	0.2	1.5
Chain Lake	33	234	2.2	13.8
McGregor Reservoir	34	308	2.9	18.1
Travers Reservoir	35	171	1.6	10.1
Keho Lake	36	94	0.9	5.5
Oldman River; Monarch to Forks	37	12	0.1	0.7
Nicholas Sheran Park Lake	38	29	0.3	1.7
Henderson Lake	39	27	0.2	1.6
Stafford Reservoir	40	12	0.1	0.7
McQuillan Lake	41	8	0.1	0.5
Belly River	42	8	0.1	0.5
St Mary River; Upper to Reservoir	43	7	0.1	0.4
St Mary Reservoir	44	35	0.3	2.1
St Mary River below Reservoir	45	5	0.0	0.3
Police (Outpost) Lake	46	47	0.4	2.8
Cross Coulee Reservoir	47	26	0.2	1.5

Question 8B Site of fishing trips (continued)

SITE NAME	CODE	COUNT	PCT OF RESPONSES	PCT OF CASES
Tyrrell Lake	48	10	0.1	0.6
Milk River Ridge Reservoir	49	49	0.5	2.9
Goldsprings Park pond	50	11	0.1	0.6
Milk River; mouth of the North Milk River to Miners Coulee Creek	51	1	0.0	0.1
Heninger Reservoir	52	36	0.3	2.1
Milk River-Miners Coulee Creek to Montana border	53	3	0.0	0.2
Chin Reservoir	54	157	1.5	9.2
Sherburne Reservoir	55	91	0.8	5.4
Unnamed Lake-near Burdett	56	54	0.5	3.2
Little Bow Reservoir	57	44	0.4	2.6
Stonehill Lake	58	12	0.1	0.7
Badger Reservoir	59	69	0.6	4.1
Bow River; Bassano Dam to mouth	60	89	0.8	5.2
Bow River; Carseland to Bassano	61	220	2.0	12.9
Red Deer River; Finegan to Dinosaur Provincial Park	62	12	0.1	0.7
Brooks childrens pond	63	5	0.0	0.3
Cowoki Reservoir	64	12	0.1	0.7
Tilly B Reservoir	65	22	0.2	1.3
Lake Newell	66	198	1.8	11.6
South Saskatchewan River; Rattlesnake to Saskatchewan border	67	54	0.5	3.2
Echo Dale Regional Park	68	12	0.1	0.7
South Saskatchewan River; Forks to Rattlesnake	69	29	0.3	1.7
Rattlesnake/Sauder reserve	70	79	0.7	4.6
Cavan Lake	71	9	0.1	0.5
Michell Reservoir	72	24	0.2	1.4
Murray Reservoir	73	93	0.9	5.5
Bullshead Reservoir	74	10	0.1	0.6
Spruce Coulee Reservoir	75	114	1.1	6.7
Elkwater Lake	76	84	0.8	4.9
Reesor Lake	77	207	1.9	12.2
Bow River, general	78	1048	9.7	61.6
Crowsnest River, general	79	161	1.5	9.5
Milk River, general	80	6	0.1	0.4
Oldman River, general	81	98	0.9	5.8
Red Deer River, general	82	250	2.3	14.7
St Mary River general	83	6	0.1	0.4
South Saskatchewan River general	84	49	0.5	2.9
Outside of province	85	116	1.1	6.8
Sharon Lake	86	1	0.0	0.1
Catarack Creek	87	8	0.1	0.5
Severn Reservoir	88	21	0.2	1.2
Weed Lake	89	5	0.0	0.3
Little Red Deer River	90	19	0.2	1.1
North Ram River	91	31	0.3	1.8
Kananaskis Lake	92	131	1.2	7.7

Question 8B Site of fishing trips (continued)

SITE NAME	CODE	COUNT	PCT OF RESPONSES	PCT OF CASES
Highwood River	93	139	1.3	8.2
Sheep River	94	93	0.9	5.5
Lake Mindapore	95	1	0.0	0.1
Wolf Lake	96	11	0.1	0.6
Moose Lake	97	35	0.3	2.1
Pigeon Lake	98	52	0.5	3.1
Spray Lake Reservoir	99	125	1.2	7.4
Name unknown	100	226	2.1	13.3
Lessor Slave Lake	101	10	0.1	0.6
Sylvan Lake	102	151	1.4	8.9
Lake Minnewanka	103	54	0.5	3.2
Krypt Lake	104	1	0.0	0.1
Waterton Nt Park (chain Lake)	105	2	0.0	0.1
Park Lake	106	20	0.2	1.2
Lost Lake (Vauxhall area)	107	4	0.0	0.2
Big Knife Park (Battle River)	108	15	0.1	0.9
Pine Lake	109	220	2.0	12.9
Dickson dam	110	68	0.6	4.0
Crandell Lake, (Waterton)	111	2	0.0	0.1
Ridge park	112	5	0.0	0.3
North Buck Lake	113	9	0.1	0.5
Little Chestener Lake	114	1	0.0	0.1
Hidden Lake (Bragg Creek area)	115	1	0.0	0.1
Crawling Valley Reservoir	116	161	1.5	9.5
Mckinnon flats, (Bow River)	117	21	0.2	1.2
Elbow River	118	71	0.7	4.2
Buck Lake	119	67	0.6	3.9
Floating Stone Lake	120	7	0.1	0.4
Brazeau River	121	5	0.0	0.3
Gull Lake	122	240	2.2	14.1
Baptiste Lake	124	2	0.0	0.1
Jackson Lake	127	2	0.0	0.1
Beaver Lake	128	23	0.2	1.4
Battle Lake	129	38	0.4	2.2
Pigeon Creek	130	1	0.0	0.1
Cow Lake	131	12	0.1	0.7
Ram River	132	28	0.3	1.6
Black Nugget Minepit, (Camrose)	133	13	0.1	0.8
Carson Lake	136	16	0.1	0.9
Wabamum Lake	137	4	0.0	0.2
Fork Lake	138	12	0.1	0.7
James River	139	18	0.2	1.1
Hastings Lake	140	5	0.0	0.3
Stauffer Creek	141	38	0.4	2.2
Strubel Creek	142	1	0.0	0.1
Thunder Lake	143	1	0.0	0.1
Pinehurst Lake	147	21	0.2	1.2
Raven River	149	58	0.5	3.4
Birch Lake	150	1	0.0	0.1
Burnstick Lake	151	44	0.4	2.6

Question 8B Site of fishing trips (continued)

SITE NAME	CODE	COUNT	PCT OF RESPONSES	PCT OF CASES
Phyllis Lake	152	6	0.1	0.4
Cold Lake	154	10	0.1	0.6
Forestburg Lake	155	17	0.2	1.0
Jackfish Lake	156	5	0.0	0.3
Pierce Lake	157	2	0.0	0.1
Lougheed Lake	158	9	0.1	0.5
Clearwater River	159	51	0.5	3.0
Smoke Lake	161	1	0.0	0.1
Rock Lake	162	3	0.0	0.2
Glenmore Reservoir	163	86	0.8	5.1
Little Bear Lake	164	1	0.0	0.1
Lac Ste Anne	165	16	0.1	0.9
Chester Lake	166	8	0.1	0.5
Jumping Pound Creek	167	26	0.2	1.5
Twin Lakes	168	13	0.1	0.8
Peppers Lake	169	11	0.1	0.6
Saskatchewan River	170	10	0.1	0.6
Banff Lake areas	171	1	0.0	0.1
Dickson pond	172	26	0.2	1.5
Sybil flats	173	1	0.0	0.1
Nakoka lodge	174	1	0.0	0.1
Siebert Lake	175	10	0.1	0.6
Six Lakes	176	1	0.0	0.1
Swan Lake	177	27	0.2	1.6
Medicine Lake	178	22	0.2	1.3
Devils Lake	179	1	0.0	0.1
Prairie Creek	180	80	0.7	4.7
Chambers Creek	181	2	0.0	0.1
Fortress Lake	182	10	0.1	0.6
Maligne Lake	183	6	0.1	0.4
Hinton	184	1	0.0	0.1
Chestermere Lake	185	42	0.4	2.5
Ghost Lake	186	79	0.7	4.6
Swawell	187	7	0.1	0.4
Touchwood Lake	188	7	0.1	0.4
Elenore Lake	189	4	0.0	0.2
Willison Creek	190	1	0.0	0.1
Patricia Lakes	191	1	0.0	0.1
Strubel Lake	192	15	0.1	0.9
Kerbes pond	193	5	0.0	0.3
Diplomat pond	194	9	0.1	0.5
Buffalo Lake	195	70	0.6	4.1
Fallen Timber Creek	196	54	0.5	3.2
Swan River	197	3	0.0	0.2
Dixon pond	198	6	0.1	0.4
Dormer Lake	199	2	0.0	0.1
Burnt Timber Creek	202	23	0.2	1.4
Sturgeon Lake	203	4	0.0	0.2
Ribbon Creek	204	1	0.0	0.1
Thirteen (13) mile	205	4	0.0	0.2

Question 8B Site of fishing trips (continued)

SITE NAME	CODE	COUNT	PCT OF RESPONSES	PCT OF CASES
Fish Lake	206	26	0.2	1.5
Coal Lake	207	20	0.2	1.2
Lake Isle	208	6	0.1	0.4
Pierre Grey Lake	211	1	0.0	0.1
Smokey River	212	3	0.0	0.2
Sheep Creek	213	1	0.0	0.1
Cold Creek	215	1	0.0	0.1
Fickel Lake	221	2	0.0	0.1
Driedmeat Lake	222	7	0.1	0.4
Gap Lake	223	23	0.2	1.4
Brown Creek	224	5	0.0	0.3
Boon Lake	225	1	0.0	0.1
Taylor Lake	226	4	0.0	0.2
Obrien Lake	227	1	0.0	0.1
Watridge Lake	230	5	0.0	0.3
Bragg Creek	231	2	0.0	0.1
Ribbon Lake	232	9	0.1	0.5
Gregoire Lake	233	2	0.0	0.1
Todd Creek	234	1	0.0	0.1
Rolling Hills Reservoir	235	10	0.1	0.6
Seebe dam	236	34	0.3	2.0
Dutch Lake	237	1	0.0	0.1
Langdon Reservoir	238	24	0.2	1.4
Eagle Lake	239	29	0.3	1.7
Garner Lake	240	6	0.1	0.4
Michichi Reservoir	241	38	0.4	2.2
Horseshoe power plant	242	12	0.1	0.7
Beaver flat	243	4	0.0	0.2
Lake Missawawi	244	1	0.0	0.1
Coronation dam	245	8	0.1	0.5
Bassano dam	246	22	0.2	1.3
Elbow Falls	247	2	0.0	0.1
Mclean Creek pond	248	7	0.1	0.4
Grist Lake	249	1	0.0	0.1
Blood Indian Reservoir (Oyen)	250	71	0.7	4.2
Stirling trout pond	251	9	0.1	0.5
Rock Island Lake	252	3	0.0	0.2
Calling Lake	253	3	0.0	0.2
Fish Creek	254	5	0.0	0.3
Kananaskis River	255	32	0.3	1.9
Barrier Lake	256	16	0.1	0.9
Embrass River	257	1	0.0	0.1
Pembina River	258	3	0.0	0.2
Goat pond	259	1	0.0	0.1
Bearspaw dam	260	21	0.2	1.2
Carburn Park (Calgary)	261	3	0.0	0.2
Terrall Reservoir	262	2	0.0	0.1
Writing on Stone Park	263	1	0.0	0.1
Forty mile dam	264	27	0.2	1.6
Anderson dam	265	2	0.0	0.1

Question 8B Site of fishing trips (continued)

SITE NAME	CODE	COUNT	PCT OF RESPONSES	PCT OF CASES
Bear pond	266	8	0.1	0.5
Bridgeland Creek	267	1	0.0	0.1
Tay Lake	268	6	0.1	0.4
Three Point Creek	269	3	0.0	0.2
Nice Creek	270	1	0.0	0.1
Cripple Creek	271	3	0.0	0.2
Goodwin Lake	272	1	0.0	0.1
Castle Falls	273	6	0.1	0.4
Headwall Lake	274	4	0.0	0.2
Wall Lake	275	1	0.0	0.1
Mckenzie Lake	276	2	0.0	0.1
Lac des Arc	277	4	0.0	0.2
Ghost River	278	23	0.2	1.4
North Saskatchewan River	279	14	0.1	0.8
Sibbald flats	280	31	0.3	1.8
Allan bill pond	281	6	0.1	0.4
Elbow Lake	282	25	0.2	1.5
Mirror Reservoir	283	7	0.1	0.4
East Stony Creek	284	1	0.0	0.1
Wilson Creek	285	3	0.0	0.2
Sipperlies dam	286	3	0.0	0.2
Lower Stony Creek	287	2	0.0	0.1
Hilers dam	288	4	0.0	0.2
Dogpound Creek	289	34	0.3	2.0
Hector Lake	290	1	0.0	0.1
Mudd Lake (Kanaskis area)	291	2	0.0	0.1
Meadow Creek	292	9	0.1	0.5
Marvel Lake	293	8	0.1	0.5
Pilot pond	294	6	0.1	0.4
Hansen pond	295	4	0.0	0.2
Cypress Hills	296	1	0.0	0.1
Ford Creek	297	1	0.0	0.1
Yellow Lake	298	12	0.1	0.7
Rainy Lake	299	2	0.0	0.1
Windsor Lake	300	8	0.1	0.5
Upper Man Lake	301	1	0.0	0.1
Frenchmans Lake	302	2	0.0	0.1
Fairfax Lake	304	5	0.0	0.3
Rat Creek	305	1	0.0	0.1
Waterfowl Lake	306	3	0.0	0.2
Long Lake	307	5	0.0	0.3
Wardens Lake	308	3	0.0	0.2
Alford Creek	309	8	0.1	0.5
Two Jack Lake	310	3	0.0	0.2
Winnifred Lake	311	5	0.0	0.3
Glenifer Lake	312	34	0.3	2.0
Island Lake	313	5	0.0	0.3
Cross Lake	314	2	0.0	0.1
Lost Creek	316	5	0.0	0.3
Lac la Biche	317	8	0.1	0.5

Question 8B Site of fishing trips (continued)

SITE NAME	CODE	COUNT	PCT OF RESPONSES	PCT OF CASES
Cameron Lake, (Waterton)	318	3	0.0	0.2
Rawson Lake	319	4	0.0	0.2
William Creek	320	5	0.0	0.3
Waiparous Creek	321	18	0.2	1.1
Johnson Creek	322	4	0.0	0.2
Lesueur Creek	323	9	0.1	0.5
Hidden Creek	324	3	0.0	0.2
Devils Head Creek	325	4	0.0	0.2
Tay River	326	18	0.2	1.1
Thunder Mountain Lake	327	1	0.0	0.1
Helmer dam	328	15	0.1	0.9
Burns Lake	329	1	0.0	0.1
Tacis Lake	330	1	0.0	0.1
Tombstone Lake	331	4	0.0	0.2
Kehiwin Lake	332	6	0.1	0.4
Minnie Lake	333	3	0.0	0.2
Grizzly Lake	334	3	0.0	0.2
Lees Creek	335	6	0.1	0.4
Klaudts dam	336	4	0.0	0.2
Golden Lake	339	2	0.0	0.1
MacLeod River	341	2	0.0	0.1
Amisk Lake	342	1	0.0	0.1
Shunda Creek	343	26	0.2	1.5
Abraham Lake	344	3	0.0	0.2
Sunken Lake	345	4	0.0	0.2
Enchant pond	346	4	0.0	0.2
Egypt Lake	347	1	0.0	0.1
Bourgeau Lake	348	4	0.0	0.2
Wedge pond	349	1	0.0	0.1
Bill allen pond	350	1	0.0	0.1
Snaring River (Jasper Ntl Park)	355	2	0.0	0.1
Fawcett Lake	356	12	0.1	0.7
Athabasca River	357	5	0.0	0.3
Two Lakes	358	1	0.0	0.1
Muriel Lake	360	4	0.0	0.2
Beartrap Lake	361	1	0.0	0.1
Hilda Lake	362	3	0.0	0.2
Mcvinnie pond	363	18	0.2	1.1
Clear Creek	364	1	0.0	0.1
Dam H (Vauxhall)	365	6	0.1	0.4
Tucker Lake	366	1	0.0	0.1
Midway Reservoir	367	2	0.0	0.1
Landslide Lake	368	2	0.0	0.1
Bear Lake	369	8	0.1	0.5
Big Iron Lake	370	10	0.1	0.6
Lost Guide Lake	371	3	0.0	0.2
Grass Lake	372	1	0.0	0.1
Pearce Estate Park (Calgary)	373	1	0.0	0.1
Georges pond	374	1	0.0	0.1
Goat Lake	375	1	0.0	0.1

Question 8B Site of fishing trips (continued)

SITE NAME	CODE	COUNT	PCT OF RESPONSES	PCT OF CASES
Loretts pond	376	1	0.0	0.1
Keeney pond	377	5	0.0	0.3
Kramers pond	378	1	0.0	0.1
Klein Lake	379	1	0.0	0.1
Margaret Lake	380	4	0.0	0.2
Sauder Reservoir	381	2	0.0	0.1
Grassy Lake	382	29	0.3	1.7
Chickenhill Lake	383	2	0.0	0.1
Carnovon Lake	384	9	0.1	0.5
Winchell Lake	385	2	0.0	0.1
Schroeder Creek	386	5	0.0	0.3
Pincher Creek	387	2	0.0	0.1
Dewits pond	388	1	0.0	0.1
Three Isle Lake	389	5	0.0	0.3
Yarrow Creek	390	4	0.0	0.2
East Scarpe Lake	391	3	0.0	0.2
Lys Lake	392	2	0.0	0.1
Foremost dam	393	3	0.0	0.2
Green Lake	394	1	0.0	0.1
Rae Lake	395	1	0.0	0.1
Lilian Lake	396	6	0.1	0.4
Snipe Lake	397	3	0.0	0.2
Sperser Lake	398	2	0.0	0.1
Lonesome Lake	399	1	0.0	0.1
Michell Creek	400	1	0.0	0.1
Alexander Creek	401	1	0.0	0.1
Elk River	402	4	0.0	0.2
Blindman River	403	20	0.2	1.2
Storm Lake	404	2	0.0	0.1
Bighorn River	405	2	0.0	0.1
Utikuma Lake	406	3	0.0	0.2
Fincastle Lake	407	3	0.0	0.2
Pickle Jar Lake (Kananaskis area)	408	7	0.1	0.4
Panther River	409	2	0.0	0.1
Rainy Ridge Lake	410	3	0.0	0.2
Picture Butte Reservoir	411	4	0.0	0.2
Elford Creek	412	1	0.0	0.1
Grotto pond	413	7	0.1	0.4
Pipestone River	414	1	0.0	0.1
Herbert Lake	415	1	0.0	0.1
Many Lakes	416	1	0.0	0.1
Horsefly Lake	417	3	0.0	0.2
Daisy Creek	418	2	0.0	0.1
Allison Creek	419	1	0.0	0.1
Scope dam	420	13	0.1	0.8
Cameron Creek	421	3	0.0	0.2
Lee Creek	422	7	0.1	0.4
Johnson Lake	423	4	0.0	0.2
Flathead Creek	424	2	0.0	0.1
Seven persons Creek	425	2	0.0	0.1

Question 8B Site of fishing trips (continued)

SITE NAME	CODE	COUNT	PCT OF RESPONSES	PCT OF CASES
Botteral Creek	426	2	0.0	0.1
Owl Lake	427	2	0.0	0.1
Gloria Lake	428	1	0.0	0.1
Flat Creek	429	1	0.0	0.1
Pekisko Creek	430	1	0.0	0.1
Squaw Creek	431	1	0.0	0.1
Ministikwan Lake	432	2	0.0	0.1
Cow Creek	433	8	0.1	0.5
Katherine Lake	434	1	0.0	0.1
Fall Creek	435	1	0.0	0.1
Lick Creek	436	1	0.0	0.1
Battle River	437	24	0.2	1.4
Muskeg River	438	1	0.0	0.1
Grand Cache Lake	439	1	0.0	0.1
Baptiste River	440	2	0.0	0.1
Mud Creek	441	3	0.0	0.2
Skunk Creek	442	2	0.0	0.1
Calolside dam	443	2	0.0	0.1
Goldeye Lake	444	18	0.2	1.1
Cricket Lake	445	1	0.0	0.1
Duck Lake	446	1	0.0	0.1
Spring Creek	447	1	0.0	0.1
Kenney Coulee	448	4	0.0	0.2
Lac la Nonne	449	4	0.0	0.2
Bow Island town pond	450	4	0.0	0.2
Gooseberry dam, (Lake)	451	5	0.0	0.3
Dalmead Reservoir	452	1	0.0	0.1
Fisher Creek	453	6	0.1	0.4
Emerald Lake	454	2	0.0	0.1
Factory Lake	455	3	0.0	0.2
Lake Zeta	456	2	0.0	0.1
Powder Lake	457	1	0.0	0.1
Marie Lake	458	2	0.0	0.1
Ironwood Lake	459	6	0.1	0.4
Vetch Creek	460	2	0.0	0.1
Swan Creek	461	5	0.0	0.3
Ponoka Chain Lakes	462	4	0.0	0.2
Camp Creek	463	1	0.0	0.1
Ethel Lake	464	1	0.0	0.1
Peace River	465	1	0.0	0.1
Stoney Creek	466	2	0.0	0.1
Limestone Creek	467	1	0.0	0.1
Clarks Reservoir	468	2	0.0	0.1
Mcfinney pond	469	2	0.0	0.1
Sundance Lake (Calgary)	470	17	0.2	1.0
Dodds coal mine	471	2	0.0	0.1
Sugar factory Lake, Taber	472	3	0.0	0.2
Glacier River	473	1	0.0	0.1
Elk Creek	474	6	0.1	0.4
Rat Lake	475	1	0.0	0.1

Question 8B Site of fishing trips (continued)

SITE NAME	CODE	COUNT	PCT OF RESPONSES	PCT OF CASES
Mclaren Lake	476	4	0.0	0.2
Mann Lake	477	7	0.1	0.4
Huber dam, (Coronation)	478	5	0.0	0.3
Capt ere Lake	479	1	0.0	0.1
Meeting Creek	480	1	0.0	0.1
Hay River	481	2	0.0	0.1
Little Bow River	482	16	0.1	0.9
Trap Creek	483	1	0.0	0.1
Berland Creek	484	1	0.0	0.1
Sundance Creek	485	1	0.0	0.1
Alix Creek	486	2	0.0	0.1
Primrose Lake	487	3	0.0	0.2
Lawrence Creek	488	1	0.0	0.1
Laurier Lake	489	2	0.0	0.1
Ravine Creek	490	3	0.0	0.2
Blackstone Creek	491	6	0.1	0.4
Whitefish Lake	492	1	0.0	0.1
Bower Lake	493	4	0.0	0.2
Lake Haze	494	1	0.0	0.1
Bouquene Lake	495	1	0.0	0.1
Bourque Lake	496	1	0.0	0.1
Long Island Lake	497	1	0.0	0.1
Missawawi Lake	498	4	0.0	0.2
Battle Creek	499	3	0.0	0.2
Open Creek dam	500	2	0.0	0.1
Libby dam	501	2	0.0	0.1
Moore Lake	502	2	0.0	0.1
Bow City Lake	503	12	0.1	0.7
Frog Lake	504	1	0.0	0.1
Offram Lake	505	1	0.0	0.1
Lac Sante	506	7	0.1	0.4
Hanmore Lake	507	1	0.0	0.1
Blackett Lake	508	3	0.0	0.2
Venice Lake	509	1	0.0	0.1
Lougheed trout pond	510	5	0.0	0.3
Hardistry River	511	1	0.0	0.1
Forestburg trout pond	512	2	0.0	0.1
Miquelon Lake	513	1	0.0	0.1
Hardistry Lake	514	1	0.0	0.1
Kingman Lake	515	1	0.0	0.1
Lac Delorme	516	8	0.1	0.5
Stettler pond	517	3	0.0	0.2
Sparrows Egg Lake	518	4	0.0	0.2
Maude Lake	519	4	0.0	0.2
Christina Lake	520	2	0.0	0.1
Carrington River	521	1	0.0	0.1
Gods Lake	522	3	0.0	0.2
Trout Creek	523	5	0.0	0.3
Rockbound Lake	524	2	0.0	0.1
Harlech pond	525	1	0.0	0.1

Question 8B Site of fishing trips (continued)

SITE NAME	CODE	COUNT	PCT OF RESPONSES	PCT OF CASES
Copper Lake	526	1	0.0	0.1
Loomis Lake	527	1	0.0	0.1
Surveyors Lake	528	1	0.0	0.1
Burbank River	529	4	0.0	0.2
Smith Lake	530	1	0.0	0.1
Galatea Lakes	531	2	0.0	0.1
Charron Lake	532	1	0.0	0.1
Bow provincial park	533	2	0.0	0.1
Harold Creek	534	3	0.0	0.2
Bracconer Reservoir	535	1	0.0	0.1
Bearberry Creek	536	1	0.0	0.1
Moab Lake	537	2	0.0	0.1
Maligne River	538	1	0.0	0.1
Ripple Lake	539	4	0.0	0.2
Edward Lake	540	1	0.0	0.1
Victory Creek	541	1	0.0	0.1
Wabasco Lake	542	3	0.0	0.2
Orloff Lake	543	1	0.0	0.1
Wizzard Lake	544	3	0.0	0.2
Medicine River	545	2	0.0	0.1
Mill Creek	546	1	0.0	0.1
Little Bow Provincial Park	547	4	0.0	0.2
Wapiabi River	548	1	0.0	0.1
Marsh Lake	549	1	0.0	0.1
Fox Creek	550	2	0.0	0.1
James Lake	551	1	0.0	0.1
Romeo Lake	552	9	0.1	0.5
Canyon Creek	553	4	0.0	0.2
Fitzsimmons Creek	554	1	0.0	0.1
Langdon River	555	1	0.0	0.1
Crypt Lake (Waterton)	556	3	0.0	0.2
Isabelle Lake	557	1	0.0	0.1
Mosquito Lake	558	1	0.0	0.1
Peagan Lake	559	2	0.0	0.1
Gorge Creek	560	1	0.0	0.1
Crimson Lake	561	3	0.0	0.2
Brewster Creek	562	4	0.0	0.2
Heart Lake	563	2	0.0	0.1
Nimelas dam	564	1	0.0	0.1
Shannon Lake	565	1	0.0	0.1
George Creek	566	2	0.0	0.1
Coal Creek	567	1	0.0	0.1
Smith Creek	568	2	0.0	0.1
Rummel Lake	569	2	0.0	0.1
Cutoff Creek	570	3	0.0	0.2
Wardlow River	571	1	0.0	0.1
Bertha Lake (Waterton)	572	3	0.0	0.2
Gardner Creek	573	1	0.0	0.1
Cat Creek	574	1	0.0	0.1
Lessard Lake	575	1	0.0	0.1

Question 8B Site of fishing trips (continued)

SITE NAME	CODE	COUNT	PCT OF RESPONSES	PCT OF CASES
Jensen dam	576	2	0.0	0.1
Private dam/pond/dugout	577	10	0.1	0.6
Dilberry provincial park	578	1	0.0	0.1
Milo Reservoir	579	1	0.0	0.1
Paddy flats	580	1	0.0	0.1
Skeleton Lake	581	1	0.0	0.1
Barre Lake	582	1	0.0	0.1
Lake of Horns	583	1	0.0	0.1
Clampitt Lake	584	1	0.0	0.1
Magee Lake	585	1	0.0	0.1
Spring Point beaver pond	586	1	0.0	0.1
Policemans flats Bow River	587	1	0.0	0.1
Red Lodge park	589	2	0.0	0.1
Iosagin Lake	590	1	0.0	0.1
Onion Creek	591	1	0.0	0.1
Lake Kokanosa	592	1	0.0	0.1
Kickamen Lake	593	1	0.0	0.1
Emerson Lake	594	2	0.0	0.1
Chungo River	595	1	0.0	0.1
Hover dam	596	1	0.0	0.1
Bow Lake	597	4	0.0	0.2
Wilson beach	598	8	0.1	0.5
Crossfield Reservoir	599	5	0.0	0.3
Heart River dam	600	1	0.0	0.1
Mable Lake	601	1	0.0	0.1
Adams Lake	602	1	0.0	0.1
Borlun River	603	1	0.0	0.1
Cline River	604	1	0.0	0.1
Rockyford Reservoir	605	1	0.0	0.1
Round Lake	606	2	0.0	0.1
Mosquito Creek	607	1	0.0	0.1
Spray River	608	2	0.0	0.1
Raven Creek	609	2	0.0	0.1
Angling Lake	610	3	0.0	0.2
Garnier Lake	611	2	0.0	0.1
Medicine Hat College pond	612	3	0.0	0.2
University Reservoir, Lethbridge	613	1	0.0	0.1
Beaver Creek	635	1	0.0	0.1
Allstones Lake	647	1	0.0	0.1
Arts pond	649	1	0.0	0.1
	TOTAL RESPONSES	10803	100.0	635.5

415 MISSING CASES 1700 VALID CASES

Question 8C Distance from home to site

DISTANCE IN MILES	COUNT	PCT OF RESPONSES	PCT OF CASES
0-9	1291	12.5	78.1
10-19	1015	9.8	61.4
20-29	818	7.9	49.5
30-39	732	4.2	44.3
40-49	848	8.2	51.3
50-59	620	6.0	37.5
60-69	772	7.5	46.7
70-79	623	6.0	37.7
80-89	492	4.8	29.8
90-99	460	4.4	27.8
100-109	699	6.8	42.3
110-119	163	1.6	9.9
120-129	374	3.6	22.6
130-139	114	1.1	6.9
140-149	115	1.1	7.0
150-159	292	2.8	17.7
160-169	85	0.8	5.1
170-179	59	0.6	3.6
180-189	129	1.2	7.8
190-199	28	0.3	1.7
200-249	260	2.5	15.7
250-299	90	0.9	5.4
300-349	98	0.9	5.9
350-399	41	0.4	2.5
400-449	37	0.4	2.2
450-499	16	0.2	1.0
500-549	13	0.1	0.8
550-599	5	0.0	0.3
600-649	20	0.2	1.2
650	1	0.0	0.1
700	8	0.1	0.5
750	1	0.0	0.1
780	1	0.0	0.1
800	15	0.1	0.9
900	3	0.0	0.2
999	20	0.2	1.2
TOTAL RESPONSES	10348	100.0	626.0

462 MISSING CASES 1653 VALID CASES

Question 8D Size of party

CATEGORY LABEL	CODE	COUNT	PCT OF RESPONSES	PCT OF CASES
	1	1405	13.5	85.7
	2	4727	45.4	288.4
	3	1817	17.4	110.9
	4	1530	14.7	93.3
	5	363	3.5	22.1
	6	283	2.7	17.3
	7	69	0.7	4.2
	8	103	1.0	6.3
	9	29	0.3	1.8
	10	43	0.4	2.6
	11	8	0.1	0.5
	12	14	0.1	0.9
	13	2	0.0	0.1
	14	6	0.1	0.4
	15	8	0.1	0.5
	16	5	0.0	0.3
	18	1	0.0	0.1
	19	1	0.0	0.1
	20	3	0.0	0.2
	25	1	0.0	0.1
	30	2	0.0	0.1
	40	1	0.0	0.1
	50	1	0.0	0.1
	70	1	0.0	0.1
	TOTAL RESPONSES	10423	100.0	635.9

476 MISSING CASES 1639 VALID CASES

Question 8E Fish species sought

CATEGORY LABEL	CODE	COUNT	PCT OF RESPONSES	PCT OF CASES
walleye	1	992	7.6	59.6
rainbow trout	2	909	7.0	54.6
brown trout	3	472	3.6	28.4
brook trout	4	181	1.4	10.9
cutthroat trout	5	217	1.7	13.0
trout (unspecified elsewhere)	6	4782	36.9	287.4
northern pike	7	3177	24.5	190.9
whitefish	8	967	7.5	58.1
perch	9	541	4.2	32.5
goldeye	10	131	1.0	7.9
arctic grayling	11	57	0.4	3.4
lake trout	12	144	1.1	8.7
salmon	13	41	0.3	2.5
other, (ling, sauger, suckers, kokanee, bass, burbot)	14	135	1.0	8.1
anything can catch	15	107	0.8	6.4
pickeral	16	83	0.6	5.0
sturgeon	17	39	0.3	2.3
	TOTAL RESPONSES	12975	100.0	779.7

451 MISSING CASES 1664 VALID CASES

Question 8F Number of fish caught

CODE	COUNT	PCT OF RESPONSES	PCT OF CASES
1	998	13.1	65.6
2	1295	17.0	85.1
3	927	12.2	60.9
4	819	10.8	53.8
5	650	8.5	42.7
6	503	6.6	33.1
7	209	2.7	13.7
8	296	3.9	19.5
9	114	1.5	7.5
10	458	6.0	30.1
11	44	0.6	2.9
12	171	2.2	11.2
13	44	0.6	2.9
14	36	0.5	2.4
15	200	2.6	13.1
16	34	0.4	2.2
17	16	0.2	1.1
18	42	0.6	2.8
19	16	0.2	1.1
20	179	2.4	11.8
21	13	0.2	0.9
22	14	0.2	0.9
23	13	0.2	0.9
24	11	0.1	0.7
25	67	0.9	4.4
26	7	0.1	0.5
27	7	0.1	0.5
28	7	0.1	0.5
29	2	0.0	0.1
30-39	163	2.1	10.7
40-49	82	1.1	5.4
50-59	49	0.6	3.2
60-69	38	0.5	2.5
70-79	17	0.2	1.1
80-89	11	0.1	0.7
90-99	5	0.1	0.3
100-149	31	0.4	2.0
150-199	10	0.1	0.7
200-249	11	0.1	0.7
250-299	2	0.0	0.1
300	2	0.0	0.1
354	1	0.0	0.1
400	1	0.0	0.1
450	1	0.0	0.1
TOTAL RESPONSES	7616	100.0	500.7

594 MISSING CASES 1521 VALID CASES

Question 8G Number of fish released

CODE	COUNT	PCT OF RESPONSES	PCT OF CASES
1	702	15.0	60.4
2	917	19.6	78.8
3	526	11.2	45.2
4	431	9.2	37.1
5	425	9.1	36.5
6	300	6.4	25.8
7	104	2.2	8.9
8	139	3.0	12.0
9	49	1.0	4.2
10	309	6.6	26.6
11	28	0.6	2.4
12	68	1.5	5.8
13	31	0.7	2.7
14	19	0.4	1.6
15	113	2.4	9.7
16	17	0.4	1.5
17	10	0.2	0.9
18	18	0.4	1.5
19	11	0.2	0.9
20	128	2.7	11.0
21	10	0.2	0.9
22	4	0.1	0.3
23	4	0.1	0.3
24	5	0.1	0.4
25	36	0.8	3.1
26	5	0.1	0.4
27	5	0.1	0.4
28	8	0.2	0.7
29	3	0.1	0.3
30-39	94	2.0	8.1
40-49	46	1.0	4.0
50-59	36	0.8	3.1
60-69	13	0.3	1.1
70-79	13	0.3	1.1
80-89	11	0.2	0.9
90-99	7	0.1	0.6
100-149	18	0.4	1.5
150-199	7	0.1	0.6
200-299	5	0.1	0.4
250-299	3	0.1	0.3
375	1	0.0	0.1
400	1	0.0	0.1
TOTAL RESPONSES	4680	100.0	402.4

952 MISSING CASES 1163 VALID CASES

Question 8H Type of waterbody

CATEGORY LABEL	CODE	COUNT	PCT OF RESPONSES	PCT OF CASES
river	1	3235	30.1	190.6
lake	2	5168	48.2	304.5
stream, creek, brook	3	990	9.2	58.3
pond, mine pit	4	285	2.7	16.8
reservoir	5	1026	9.6	60.5
ocean	6	26	0.2	1.5
	TOTAL RESPONSES	10730	100.0	632.3

418 MISSING CASES 1697 VALID CASES

Question 8I length of fishing trip[1]

CODE	COUNT	PCT OF RESPONSES	PCT OF CASES
1	1194	42.5	140.3
2	1026	36.5	120.6
3	311	11.1	36.5
4	81	2.9	9.5
5	46	1.6	5.4
6	42	1.5	4.9
7	22	0.8	2.6
8	21	0.7	2.5
9	14	0.5	1.6
10	14	0.5	1.6
11	6	0.2	0.7
12	6	0.2	0.7
13	7	0.2	0.8
14	5	0.2	0.6
15	3	0.1	0.4
16	4	0.1	0.5
17	1	0.0	0.1
22	1	0.0	0.1
23	1	0.0	0.1
26	1	0.0	0.1
29	1	0.0	0.1
30	1	0.0	0.1
34	1	0.0	0.1
36	2	0.1	0.2
TOTAL RESPONSES	2811	100.0	330.3

1264 MISSING CASES 851 VALID CASES

[1]Computed by subtracting the end date from the start date on the trip calendar.

Question 10 What is your place of residence (nearest city or town)?

VALUE	FREQ	PCT	CUM PCT	VALUE	FREQ	PCT	CUM PCT	VALUE	FREQ	PCT	CUM PCT
1	1	0	0	87	8	0	55	205	9	0	81
2	24	1	1	88	1	0	55	206	17	1	81
4	2	0	1	90	2	0	56	207	116	6	87
5	1	0	1	94	4	0	56	208	14	1	88
11	1	0	1	95	1	0	56	210	1	0	88
13	3	0	2	101	3	0	56	213	3	0	88
14	6	0	2	102	6	0	56	217	1	0	88
15	3	0	2	104	10	0	57	221	5	0	88
18	1	0	2	108	1	0	57	231	2	0	88
19	3	0	2	109	3	0	57	232	4	0	88
20	8	0	3	121	3	0	57	233	15	1	89
23	2	0	3	122	2	0	57	234	5	0	89
26	3	0	3	124	1	0	57	237	7	0	90
27	7	0	3	127	11	1	58	238	5	0	90
29	9	0	4	130	2	0	58	240	16	1	91
33	2	0	4	133	15	1	59	243	25	1	92
34	8	0	4	134	3	0	59	244	33	2	94
35	8	0	4	139	1	0	59	247	4	0	94
38	35	2	6	141	22	1	60	248	1	0	94
41	827	40	46	144	4	0	60	250	1	0	94
43	35	2	48	145	3	0	60	251	6	0	94
44	8	0	48	149	4	0	60	252	4	0	94
45	3	0	49	153	29	1	62	253	1	0	94
46	8	0	49	159	125	6	68	254	1	0	94
48	1	0	49	160	3	0	68	256	6	0	95
49	5	0	49	162	1	0	68	259	1	0	95
51	6	0	49	164	4	0	68	260	1	0	95
58	16	1	50	165	2	0	68	262	2	0	95
59	2	0	50	166	1	0	68	266	4	0	95
60	2	0	50	172	120	6	74	272	21	1	96
62	16	1	51	173	3	0	74	273	1	0	96
63	15	1	52	174	8	0	75	277	2	0	96
65	7	0	52	175	2	0	75	278	1	0	96
66	3	0	52	177	3	0	75	279	2	0	96
67	4	0	53	185	4	0	75	281	2	0	97
68	2	0	53	186	3	0	75	282	1	0	97
69	1	0	53	187	2	0	75	283	3	0	97
70	2	0	53	188	1	0	75	284	1	0	97
71	2	0	53	190	21	1	76	285	2	0	97
74	2	0	53	191	17	1	77	286	1	0	97
75	5	0	53	193	5	0	78	288	1	0	97
76	1	0	53	194	2	0	78	289	2	0	97
80	10	0	54	196	4	0	78	290	1	0	97
81	1	0	54	197	4	0	78	291	3	0	97
84	21	1	55	198	22	1	79	292	1	0	97
85	2	0	55	201	21	1	80	294	1	0	97
295	1	0	97	308	2	0	99	322	2	0	100
296	2	0	98	309	1	0	99	323	1	0	100

Question 10 (Continued) What is your place of residence (nearest city or town)?

VALUE	FREQ	PCT	CUM PCT	VALUE	FREQ	PCT	CUM PCT	VALUE	FREQ	PCT	CUM PCT
298	5	0	98	310	1	0	99	324	1	0	100
299	1	0	98	311	1	0	99	325	1	0	100
300	2	0	98	312	2	0	99	326	1	0	100
301	3	0	98	313	1	0	99	329	1	0	100
302	3	0	98	314	2	0	99	331	1	0	100
303	2	0	98	315	2	0	99	332	1	0	100
304	2	0	98	317	1	0	99	333	1	0	100
305	3	0	99	318	1	0	99	334	1	0	100
306	1	0	99	319	1	0	99	337	1	0	100
307	1	0	99	320	1	0	99				

M I S S I N G D A T A

VALUE	FREQ
0	54

Question 11 Are you male or female?

VALUE LABEL	VALUE	FREQUENCY	PERCENT	VALID PERCENT	CUM PERCENT
male	1	1723	81.5	81.7	81.7
female	2	385	18.2	18.3	100.0
	0	7	.3	MISSING	
	TOTAL	2115	100.0	100.0	

Question 12 What is your age?

VALUE	FREQ	PCT	CUM PCT	VALUE	FREQ	PCT	CUM PCT	VALUE	FREQ	PCT	CUM PCT
15	3	0	0	34	86	4	39	53	36	2	85
16	3	0	0	35	99	5	44	54	23	1	86
17	25	1	1	36	75	4	47	55	35	2	88
18	15	1	2	37	77	4	51	56	21	1	89
19	22	1	3	38	51	2	54	57	27	1	90
20	25	1	4	39	64	3	57	58	29	1	91
21	25	1	6	40	74	4	60	59	26	1	93
22	23	1	7	41	60	3	63	60	37	2	94
23	32	2	8	42	47	2	65	61	19	1	95
24	37	2	10	43	37	2	67	62	21	1	96
25	39	2	12	44	43	2	69	63	23	1	97
26	53	3	14	45	43	2	71	64	30	1	99
27	44	2	16	46	50	2	73	65	18	1	100
28	53	3	19	47	33	2	75	68	2	0	100
29	57	3	22	48	26	1	76	69	1	0	100
30	67	3	25	49	36	2	78	70	2	0	100
31	69	3	28	50	41	2	80	72	1	0	100
32	68	3	31	51	34	2	82				
33	75	4	35	52	35	2	83				

M I S S I N G D A T A

VALUE	FREQ
0	18

MEAN	39.167	MEDIAN	37.000	STD DEV	11.964
VARIANCE	143.131	MINIMUM	15.000	MAXIMUM	72.000

Question 13A How many children under the age of 16 are there in your household?

VALUE	FREQUENCY	PERCENT	VALID PERCENT	CUM PERCENT
0	1163	55.0	55.5	55.5
1	303	14.3	14.5	70.0
2	458	21.7	21.9	91.8
3	129	6.1	6.2	98.0
4	31	1.5	1.5	99.5
5	9	.4	.4	99.9
6	1	.0	.0	100.0
7	1	.0	.0	100.0
99	20	.9	MISSING	
TOTAL	2115	100.0	100.0	

MEAN	.853	MEDIAN	.000	STD DEV	1.109
VARIANCE	1.230	MINIMUM	.000	MAXIMUM	7.000

Question 13B If there are children under 16 in your household, how many of them fish?

VALUE	FREQUENCY	PERCENT	VALID PERCENT	CUM PERCENT
0	1377	65.1	65.8	65.8
1	330	15.6	15.8	81.6
2	295	13.9	14.1	95.7
3	72	3.4	3.4	99.1
4	17	.8	.8	100.0
5	1	.0	.0	100.0
99	23	1.1	MISSING	
TOTAL	2115	100.0	100.0	

MEAN	.578	MEDIAN	.000	STD DEV	.916
VARIANCE	.840	MINIMUM	.000	MAXIMUM	5.000

Question 14A How many adults over 65 are there in your household?

VALUE	FREQUENCY	PERCENT	VALID PERCENT	CUM PERCENT
0	1978	93.5	94.6	94.6
1	74	3.5	3.5	98.1
2	36	1.7	1.7	99.8
3	3	.1	.1	100.0
4	1	.0	.0	100.0
99	23	1.1	MISSING	
TOTAL	2115	100.0	100.0	

MEAN	.076	MEDIAN	.000	STD DEV	.345
VARIANCE	.119	MINIMUM	.000	MAXIMUM	4.000

Question 14B If there are adults over 65 in your household, how many of them fish?

VALUE	FREQUENCY	PERCENT	VALID PERCENT	CUM PERCENT
0	2011	95.1	96.1	96.1
1	61	2.9	2.9	99.0
2	18	.9	.9	99.9
3	2	.1	.1	100.0
99	23	1.1	MISSING	
TOTAL	2115	100.0	100.0	

MEAN	.049	MEDIAN	.000	STD DEV	.264
VARIANCE	.070	MINIMUM	.000	MAXIMUM	3.000

Question 15 Which of the following categories best represents your annual household income before taxes?

VALUE LABEL	VALUE	FREQUENCY	PERCENT	VALID PERCENT	CUM PERCENT
0-5,000	1	26	1.2	1.3	1.3
5,001-10,000	2	35	1.7	1.8	3.2
10,001-15,000	3	72	3.4	3.7	6.9
15,001- 20,000	4	93	4.4	4.8	11.7
20,001-25,000	5	155	7.3	8.0	19.8
25,001-30,000	6	188	8.9	9.8	29.5
30,001-35,000	7	191	9.0	9.9	39.4
35,001-40,000	8	188	8.9	9.8	49.2
40,001-45,000	9	142	6.7	7.4	56.5
45,001-50,000	10	196	9.3	10.2	66.7
50,001-60,000	11	223	10.5	11.6	78.3
60,001-70,000	12	149	7.0	7.7	86.0
70,001-80,000	13	95	4.5	4.9	90.9
80,001-90,000	14	51	2.4	2.6	93.6
90,001-100,000	15	32	1.5	1.7	95.2
>100,000	16	92	4.3	4.8	100.0
	0	153	7.2	MISSING	
	77	34	1.6	MISSING	
	TOTAL	2115	100.0	100.0	

MEAN	8.718	MEDIAN	9.000	STD DEV	3.540
VARIANCE	12.533	MINIMUM	1.000	MAXIMUM	16.000

Question 16 Please circle the highest number of years of education that you have completed?

VALUE	FREQUENCY	PERCENT	VALID PERCENT	CUM PERCENT
3	2	.1	.1	.1
4	1	.0	.0	.1
5	3	.1	.1	.3
6	4	.2	.2	.5
7	10	.5	.5	1.0
8	62	2.9	3.0	4.0
9	108	5.1	5.2	9.2
10	168	7.9	8.1	17.4
11	190	9.0	9.2	26.6
12	636	30.1	30.8	57.4
13	156	7.4	7.6	65.0
14	208	9.8	10.1	75.1
15	130	6.1	6.3	81.4
16	198	9.4	9.6	91.0
17	74	3.5	3.6	94.6
18	51	2.4	2.5	97.0
19	32	1.5	1.6	98.6
20	29	1.4	1.4	100.0
0	53	2.5	MISSING	
TOTAL	2115	100.0	100.0	

MEAN	12.808	MEDIAN	12.000	STD DEV	2.669
VARIANCE	7.123	MINIMUM	3.000	MAXIMUM	20.000

Question 17 How many hours do you normally work for pay each week?

VALUE	FREQ	PCT	CUM PCT	VALUE	FREQ	PCT	CUM PCT	VALUE	FREQ	PCT	CUM PCT
0	250	13	13	30	35	2	21	62	1	0	96
1	1	0	13	32	6	0	21	65	7	0	96
3	3	0	13	35	46	2	24	66	3	0	96
4	1	0	13	36	24	1	25	68	1	0	96
5	5	0	13	37	115	6	31	70	19	1	97
6	4	0	13	38	23	1	32	72	2	0	97
7	7	0	14	39	5	0	32	75	3	0	97
8	21	1	15	40	768	38	71	76	1	0	97
10	16	1	15	41	2	0	71	77	1	0	97
12	5	0	16	42	23	1	72	78	1	0	97
14	1	0	16	43	2	0	72	80	21	1	98
15	3	0	16	44	57	3	75	84	8	0	99
16	8	0	16	45	73	4	79	85	1	0	99
18	6	0	17	46	6	0	79	86	1	0	99
20	28	1	18	47	1	0	79	88	1	0	99

Question 17 (Continued) How many hours do you normally work for pay each week?

VALUE	FREQ	PCT	CUM PCT	VALUE	FREQ	PCT	CUM PCT	VALUE	FREQ	PCT	CUM PCT
21	2	0	18	48	28	1	80	90	4	0	99
22	1	0	18	50	183	9	89	96	1	0	99
23	1	0	18	51	1	0	89	98	1	0	99
24	8	0	19	52	2	0	90	100	8	0	100
25	13	1	19	54	3	0	90	112	1	0	100
26	2	0	19	55	27	1	91	120	2	0	100
27	1	0	19	56	14	1	92	168	2	0	100
28	1	0	19	60	74	4	95				

M I S S I N G D A T A

VALUE	FREQ
999	119

MEAN	37.055	MEDIAN	40.000	STD DEV	19.159
VARIANCE	367.061	MINIMUM	.000	MAXIMUM	168.000

Question 18 What do you consider your main occupation to be?

VALUE LABEL	VALUE	FREQUENCY	PERCENT	VALID PERCENT	CUM PERCENT
professional and technical	1	368	17.4	18.1	18.1
managerial	2	174	8.2	8.6	26.6
contractor	3	9	.4	.4	27.1
farming (farmer, rancher)	4	127	6.0	6.2	33.3
tradesman	5	312	14.8	15.3	48.6
transportation and communication	6	106	5.0	5.2	53.9
service occupations	7	261	12.3	12.8	66.7
retail sales	8	26	1.2	1.3	68.0
real estate	9	14	.7	.7	68.6
operative	10	105	5.0	5.2	73.8
armed forces	11	6	.3	.3	74.1
clerical	12	53	2.5	2.6	76.7
labourers (unskilled)	13	56	2.6	2.8	79.5
homemaker	14	119	5.6	5.8	85.3
student	15	63	3.0	3.1	88.4
retired	16	111	5.2	5.5	93.9
not in labour force	17	20	.9	1.0	94.8
self-employed	18	63	3.0	3.1	97.9
miscellaneous	19	42	2.0	2.1	100.0
	0	80	3.8	MISSING	
	TOTAL	2115	100.0	100.0	

MEAN	7.247	MEDIAN	6.000	STD DEV	5.391
VARIANCE	29.058	MINIMUM	1.000	MAXIMUM	19.000

Question 19 How many days of paid vacation do you get each year?

VALUE	FREQ	PCT	CUM PCT	VALUE	FREQ	PCT	CUM PCT	VALUE	FREQ	PCT	CUM PCT
0	713	36	36	17	4	0	66	36	6	0	97
1	2	0	36	18	4	0	66	37	1	0	97
2	2	0	36	19	2	0	66	40	9	0	98
3	2	0	37	20	226	11	78	42	2	0	98
4	4	0	37	21	134	7	84	44	2	0	98
5	5	0	37	22	5	0	85	49	1	0	98
6	4	0	37	23	3	0	85	50	6	0	98
7	24	1	38	24	5	0	85	60	11	1	99
8	2	0	38	25	112	6	91	62	1	0	99
9	1	0	39	26	1	0	91	70	4	0	99
10	110	6	44	27	1	0	91	75	3	0	99
11	3	0	44	28	32	2	93	80	5	0	100
12	14	1	45	30	68	3	96	90	2	0	100
13	1	0	45	31	2	0	96	100	1	0	100
14	213	11	56	32	1	0	96	110	1	0	100
15	180	9	65	33	4	0	96	120	1	0	100
16	13	1	66	35	15	1	97	186	1	0	100

M I S S I N G D A T A

VALUE	FREQ
999	146

MEAN	12.840	MEDIAN	14.000	STD DEV	13.651
VARIANCE	186.349	MINIMUM	.000	MAXIMUM	186.000

Question 20A I take time off work to go fishing

VALUE LABEL	VALUE	FREQUENCY	PERCENT	VALID PERCENT	CUM PERCENT
always	1	115	5.4	6.1	6.1
sometimes	2	495	23.4	26.1	32.2
seldom	3	407	19.2	21.5	53.7
never	4	877	41.5	46.3	100.0
	0	221	10.4	MISSING	
	TOTAL	2115	100.0	100.0	

MEAN	3.080	MEDIAN	3.000	STD DEV	.980
VARIANCE	.961	MINIMUM	1.000	MAXIMUM	4.000

Question 20B I could be working on days I take fishing trips?

VALUE LABEL	VALUE	FREQUENCY	PERCENT	VALID PERCENT	CUM PERCENT
always	1	227	10.7	12.1	12.1
sometimes	2	582	27.5	31.1	43.2
seldom	3	335	15.8	17.9	61.1
never	4	728	34.4	38.9	100.0
	0	243	11.5	MISSING	
	TOTAL	2115	100.0	100.0	

MEAN	2.835	MEDIAN	3.000	STD DEV	1.076
VARIANCE	1.158	MINIMUM	1.000	MAXIMUM	4.000

Question 20C My job has flexible working hours

VALUE LABEL	VALUE	FREQUENCY	PERCENT	VALID PERCENT	CUM PERCENT
always	1	411	19.4	21.2	21.2
sometimes	2	649	30.7	33.5	54.8
seldom	3	291	13.8	15.0	69.8
never	4	585	27.7	30.2	100.0
	0	179	8.5	MISSING	
	TOTAL	2115	100.0	100.0	

MEAN	2.542	MEDIAN	2.000	STD DEV	1.130
VARIANCE	1.278	MINIMUM	1.000	MAXIMUM	4.000

APPENDIX B: DESCRIPTIVE STATISTICS
RESPONDENTS WHO FISHED IN THE SOUTHERN REGION

Question 1.1 Good chance to catch trophy-sized fish

VALUE LABEL	VALUE	FREQUENCY	PERCENT	VALID PERCENT	CUM PERCENT
not important	1	330	33.3	33.8	33.8
	2	171	17.2	17.5	51.3
somewhat important	3	318	32.1	32.6	83.9
	4	93	9.4	9.5	93.4
very important	5	64	6.5	6.6	100.0
	0	16	1.6	MISSING	
	TOTAL	992	100.0	100.0	

MEAN	2.375	MEDIAN	2.000	STD DEV	1.223
VARIANCE	1.496	MINIMUM	1.000	MAXIMUM	5.000

Question 1.2 Good chance to catch limit

VALUE LABEL	VALUE	FREQUENCY	PERCENT	VALID PERCENT	CUM PERCENT
not important	1	223	22.5	22.8	22.8
	2	190	19.2	19.4	42.3
somewhat important	3	299	30.1	30.6	72.9
	4	165	16.6	16.9	89.8
very important	5	100	10.1	10.2	100.0
	0	15	1.5	MISSING	
	TOTAL	992	100.0	100.0	

MEAN	2.723	MEDIAN	3.000	STD DEV	1.269
VARIANCE	1.610	MINIMUM	1.000	MAXIMUM	5.000

Question 1.3 Good chance to catch a preferred species

VALUE LABEL	VALUE	FREQUENCY	PERCENT	VALID PERCENT	CUM PERCENT
not important	1	144	14.5	14.8	14.8
	2	88	8.9	9.1	23.9
somewhat important	3	275	27.7	28.3	52.2
	4	267	26.9	27.5	79.7
very important	5	197	19.9	20.3	100.0
	0	21	2.1	MISSING	
	TOTAL	992	100.0	100.0	

MEAN	3.294	MEDIAN	3.000	STD DEV	1.298
VARIANCE	1.686	MINIMUM	1.000	MAXIMUM	5.000

Question 1.4 Knowing that the lake is stocked with fish

VALUE LABEL	VALUE	FREQUENCY	PERCENT	VALID PERCENT	CUM PERCENT
not important	1	117	11.8	12.1	12.1
	2	94	9.5	9.7	21.8
somewhat important	3	263	26.5	27.2	49.0
	4	172	17.3	17.8	66.7
very important	5	322	32.5	33.3	100.0
	0	24	2.4	MISSING	
	TOTAL	992	100.0	100.0	

MEAN	3.504	MEDIAN	4.000	STD DEV	1.355
VARIANCE	1.837	MINIMUM	1.000	MAXIMUM	5.000

Question 1.5 Privacy from other anglers

VALUE LABEL	VALUE	FREQUENCY	PERCENT	VALID PERCENT	CUM PERCENT
not important	1	119	12.0	12.2	12.2
	2	129	13.0	13.3	25.5
somewhat important	3	277	27.9	28.5	54.0
	4	232	23.4	23.8	77.8
very important	5	216	21.8	22.2	100.0
	0	19	1.9	MISSING	
	TOTAL	992	100.0	100.0	

MEAN	3.305	MEDIAN	3.000	STD DEV	1.287
VARIANCE	1.657	MINIMUM	1.000	MAXIMUM	5.000

Question 1.6 Natural beauty of surroundings

VALUE LABEL	VALUE	FREQUENCY	PERCENT	VALID PERCENT	CUM PERCENT
not important	1	39	3.9	4.0	4.0
	2	40	4.0	4.1	8.1
somewhat important	3	194	19.6	19.9	27.9
	4	275	27.7	28.1	56.1
very important	5	429	43.2	43.9	100.0
	0	15	1.5	MISSING	
	TOTAL	992	100.0	100.0	

MEAN	4.039	MEDIAN	4.000	STD DEV	1.077
VARIANCE	1.160	MINIMUM	1.000	MAXIMUM	5.000

Question 1.7 Water quality

VALUE LABEL	VALUE	FREQUENCY	PERCENT	VALID PERCENT	CUM PERCENT
not important	1	12	1.2	1.2	1.2
	2	10	1.0	1.0	2.3
somewhat important	3	101	10.2	10.4	12.7
	4	207	20.9	21.3	34.0
very important	5	642	64.7	66.0	100.0
	0	20	2.0	MISSING	
	TOTAL	992	100.0	100.0	

MEAN	4.499	MEDIAN	5.000	STD DEV	.818
VARIANCE	.668	MINIMUM	1.000	MAXIMUM	5.000

Question 1.8 Access to wilderness areas

VALUE LABEL	VALUE	FREQUENCY	PERCENT	VALID PERCENT	CUM PERCENT
not important	1	114	11.5	11.7	11.7
	2	114	11.5	11.7	23.5
somewhat important	3	314	31.7	32.3	55.8
	4	203	20.5	20.9	76.7
very important	5	226	22.8	23.3	100.0
	0	21	2.1	MISSING	
	TOTAL	992	100.0	100.0	

MEAN	3.322	MEDIAN	3.000	STD DEV	1.275
VARIANCE	1.625	MINIMUM	1.000	MAXIMUM	5.000

Question 1.9 Site limited to fly fishing

VALUE LABEL	VALUE	FREQUENCY	PERCENT	VALID PERCENT	CUM PERCENT
not important	1	505	50.9	52.2	52.2
	2	170	17.1	17.6	69.8
somewhat important	3	147	14.8	15.2	85.0
	4	68	6.9	7.0	92.0
very important	5	77	7.8	8.0	100.0
	0	25	2.5	MISSING	
	TOTAL	992	100.0	100.0	

MEAN	2.009	MEDIAN	1.000	STD DEV	1.294
VARIANCE	1.674	MINIMUM	1.000	MAXIMUM	5.000

Question 1.10 Distance from home

VALUE LABEL	VALUE	FREQUENCY	PERCENT	VALID PERCENT	CUM PERCENT
not important	1	137	13.8	14.0	14.0
	2	93	9.4	9.5	23.5
somewhat important	3	464	46.8	47.5	71.0
	4	162	16.3	16.6	87.6
very important	5	121	12.2	12.4	100.0
	0	15	1.5	MISSING	
	TOTAL	992	100.0	100.0	

MEAN	3.038	MEDIAN	3.000	STD DEV	1.148
VARIANCE	1.317	MINIMUM	1.000	MAXIMUM	5.000

Question 1.11 Familiarity with the area

VALUE LABEL	VALUE	FREQUENCY	PERCENT	VALID PERCENT	CUM PERCENT
not important	1	156	15.7	16.1	16.1
	2	159	16.0	16.4	32.5
somewhat important	3	389	39.2	40.1	72.6
	4	167	16.8	17.2	89.8
very important	5	99	10.0	10.2	100.0
	0	22	2.2	MISSING	
	TOTAL	992	100.0	100.0	

MEAN	2.891	MEDIAN	3.000	STD DEV	1.174
VARIANCE	1.377	MINIMUM	1.000	MAXIMUM	5.000

Question 1.12 Owning land or a cabin near the site

VALUE LABEL	VALUE	FREQUENCY	PERCENT	VALID PERCENT	CUM PERCENT
not important	1	778	78.4	80.0	80.0
	2	96	9.7	9.9	89.9
somewhat important	3	51	5.1	5.2	95.2
	4	25	2.5	2.6	97.7
very important	5	22	2.2	2.3	100.0
	0	20	2.0	MISSING	
	TOTAL	992	100.0	100.0	

MEAN	1.371	MEDIAN	1.000	STD DEV	.875
VARIANCE	.765	MINIMUM	1.000	MAXIMUM	5.000

Question 1.13 Good road access to the site

VALUE LABEL	VALUE	FREQUENCY	PERCENT	VALID PERCENT	CUM PERCENT
not important	1	172	17.3	17.7	17.7
	2	142	14.3	14.6	32.3
somewhat important	3	320	32.3	32.9	65.2
	4	184	18.5	18.9	84.2
very important	5	154	15.5	15.8	100.0
	0	20	2.0	MISSING	
	TOTAL	992	100.0	100.0	

MEAN	3.006	MEDIAN	3.000	STD DEV	1.296
VARIANCE	1.679	MINIMUM	1.000	MAXIMUM	5.000

Question 1.14 Site with boat access

VALUE LABEL	VALUE	FREQUENCY	PERCENT	VALID PERCENT	CUM PERCENT
not important	1	391	39.4	40.2	40.2
	2	127	12.8	13.1	53.3
somewhat important	3	220	22.2	22.6	75.9
	4	107	10.8	11.0	86.9
very important	5	127	12.8	13.1	100.0
	0	20	2.0	MISSING	
	TOTAL	992	100.0	100.0	

MEAN	2.436	MEDIAN	2.000	STD DEV	1.434
VARIANCE	2.057	MINIMUM	1.000	MAXIMUM	5.000

Question 1.15 Picnic/Camping facilities at or near site

VALUE LABEL	VALUE	FREQUENCY	PERCENT	VALID PERCENT	CUM PERCENT
not important	1	216	21.8	22.2	22.2
	2	114	11.5	11.7	33.9
somewhat important	3	262	26.4	26.9	60.8
	4	186	18.8	19.1	80.0
very important	5	195	19.7	20.0	100.0
	0	19	1.9	MISSING	
	TOTAL	992	100.0	100.0	

MEAN	3.031	MEDIAN	3.000	STD DEV	1.414
VARIANCE	1.999	MINIMUM	1.000	MAXIMUM	5.000

Question 1.16 Friends or relatives live nearby

VALUE LABEL	VALUE	FREQUENCY	PERCENT	VALID PERCENT	CUM PERCENT
not important	1	831	83.8	84.7	84.7
	2	90	9.1	9.2	93.9
somewhat important	3	39	3.9	4.0	97.9
	4	14	1.4	1.4	99.3
very important	5	7	.7	.7	100.0
	0	11	1.1	MISSING	
	TOTAL	992	100.0	100.0	

MEAN	1.243	MEDIAN	1.000	STD DEV	.660
VARIANCE	.435	MINIMUM	1.000	MAXIMUM	5.000

Question 2.A Approximately how many years have you fished at this site?

VALUE LABEL	VALUE	FREQUENCY	PERCENT	VALID PERCENT	CUM PERCENT
	0	13	1.3	1.3	1.3
	1	49	4.9	5.0	6.3
	2	74	7.5	7.5	13.8
	3	90	9.1	9.1	22.9
	4	45	4.5	4.6	27.5
	5	124	12.5	12.6	40.1
	6	49	4.9	5.0	45.1
	7	34	3.4	3.5	48.6
	8	32	3.2	3.2	51.8
	9	7	.7	.7	52.5
	10	133	13.4	13.6	66.1
	11-15	112	11.3	11.4	77.5
	16-20	110	11.1	11.2	88.7
	21-25	44	4.4	4.5	93.2
	26-30	34	3.4	3.5	96.7
	31-40	24	2.4	2.4	99.1
	41-50	3	0.3	0.3	99.4
	50+	6	0.6	0.6	100.0
	99	7	.7	MISSING	
	TOTAL	992	100.0	100.0	

MEAN	10.790	MEDIAN	8.000	STD DEV	9.431
VARIANCE	88.953	MINIMUM	.000	MAXIMUM	60.000

Question 2B Approximately how many times have you visited this site in the last 5 years?

VALUE LABEL	VALUE	FREQUENCY	PERCENT	VALID PERCENT	CUM PERCENT
less than 5	1	124	12.5	12.8	12.8
6-10	2	220	22.2	22.7	35.5
11-15	3	126	12.7	13.0	48.6
16-20	4	111	11.2	11.5	60.0
21-30	5	127	12.8	13.1	73.1
more than 30	6	260	26.2	26.9	100.0
	0	24	2.4	MISSING	
	TOTAL	992	100.0	100.0	

MEAN	3.699	MEDIAN	4.000	STD DEV	1.820
VARIANCE	3.311	MINIMUM	1.000	MAXIMUM	6.000

Question 2C How did you first become aware of this site?

VALUE LABEL	VALUE	FREQUENCY	PERCENT	VALID PERCENT	CUM PERCENT
from family member	1	180	18.1	18.6	18.6
from friends	2	365	36.8	37.6	56.2
word of mouth, general	3	130	13.1	13.4	69.6
Alberta Fishing guide	4	3	.3	.3	69.9
tourist info, (pamphlets highway signs etc)	5	29	2.9	3.0	72.9
random chance, (including hiking, driving)	6	148	14.9	15.3	88.1
close to home	7	77	7.8	7.9	96.1
do not have a favorite	8	7	.7	.7	96.8
miscellaneous, paid guide	9	9	.9	.9	97.7
maps	10	11	1.1	1.1	98.9
do not remember	11	1	.1	.1	99.0
while hunting	12	10	1.0	1.0	100.0
	0	22	2.2	MISSING	
	TOTAL	992	100.0	100.0	

Question 2D What are the specific things about this site that you particularly enjoy?

CATEGORY LABEL	CODE	COUNT	PCT OF RESPONSES	PCT OF CASES
large fish	1	64	3.3	6.6
good fishing (catch rate)	2	382	19.9	39.6
fish are stocked	3	17	0.9	1.8
numerous variety of species	4	25	1.3	2.6
favorite species present	5	61	3.2	6.3
type of fishing (fly, boat etc)	6	30	1.6	3.1
seclusion, quietness	7	285	14.8	29.5
road access	8	103	5.4	10.7
boat access	9	22	1.1	2.3
commercial facilities (stores etc)	10	1	0.1	0.1
camping/picnic facilities	11	144	7.5	14.9
facilities (unspecified)	12	20	1.0	2.1
close to home/worksite	13	109	5.7	11.3
water quality	14	101	5.3	10.5
scenic quality	15	307	16.0	31.8
fresh air	16	11	0.6	1.1
open fires allowed	17	2	0.1	0.2
outdoor experience (general)	18	64	3.3	6.6
other campers (friendliness)	19	3	0.2	0.3
familiarity with site	20	10	0.5	1.0
presence of other wildlife	21	29	1.5	3.0
undeveloped, wilderness	22	64	3.3	6.6
do not have a favorite site	23	7	0.4	0.7
patrolled by fish and wildlife officers	24	1	0.1	0.1
size of Lake	25	18	0.9	1.9
clean, unpolluted, general	26	36	1.9	3.7
own land or cabin nearby	27	1	0.1	0.1
free camping	28	4	0.2	0.4
	TOTAL RESPONSES	1921	100.0	199.1

27 MISSING CASES 965 VALID CASES

Question 3A What type of transport do you usually use to go from your home to a fishing site?

VALUE LABEL	VALUE	FREQUENCY	PERCENT	VALID PERCENT	CUM PERCENT
walk/bicycle	1	20	2.0	2.1	2.1
motorbike/ATV	2	2	.2	.2	2.3
car/truck/van	3	735	74.1	77.0	79.4
camper/RV	4	195	19.7	20.4	99.8
other	5	2	.2	.2	100.0
	0	38	3.8	MISSING	
	TOTAL	992	100.0	100.0	

Question 3B How long do you stay at the site on your typical trip to a fishing site?

VALUE LABEL	VALUE	FREQUENCY	PERCENT	VALID PERCENT	CUM PERCENT
1-2 hours	1	29	2.9	3.0	3.0
half day	2	212	21.4	21.8	24.8
full day	3	388	39.1	39.9	64.6
2-3 days	4	296	29.8	30.4	95.1
greater than 3 days	5	48	4.8	4.9	100.0
	0	19	1.9	MISSING	
	TOTAL	992	100.0	100.0	

Question 3C Generally speaking, how enjoyable do you find the time spent travelling to the fishing site?

VALUE LABEL	VALUE	FREQUENCY	PERCENT	VALID PERCENT	CUM PERCENT
very unenjoyable	1	45	4.5	4.6	4.6
	2	104	10.5	10.6	15.2
	3	426	42.9	43.5	58.7
	4	215	21.7	21.9	80.6
very enjoyable	5	190	19.2	19.4	100.0
	0	12	1.2	MISSING	
	TOTAL	992	100.0	100.0	

MEAN	3.409	MEDIAN	3.000	STD DEV	1.058
VARIANCE	1.118	MINIMUM	1.000	MAXIMUM	5.000

Question 3D What type of fishing do you usually do?

VALUE LABEL	VALUE	FREQUENCY	PERCENT	VALID PERCENT	CUM PERCENT
bait fishing	1	184	18.5	20.4	20.4
spin casting	2	389	39.2	43.2	63.6
trolling	3	132	13.3	14.7	78.2
fly fishing	4	176	17.7	19.5	97.8
ice fishing	5	20	2.0	2.2	100.0
	0	91	9.2	MISSING	
	TOTAL	992	100.0	100.0	

Question 3E What method of fishing do you usually do?

VALUE LABEL	VALUE	FREQUENCY	PERCENT	VALID PERCENT	CUM PERCENT
from shore	1	625	63.0	65.7	65.7
motorboat	2	218	22.0	22.9	88.6
canoe/rowing	3	53	5.3	5.6	94.2
other	4	55	5.5	5.8	100.0
	0	41	4.1	MISSING	
	TOTAL	992	100.0	100.0	

Question 3F In pounds, approximately how much fish do you take home on a typical fishing trip?

VALUE LABEL	VALUE	FREQUENCY	PERCENT	VALID PERCENT	CUM PERCENT
< 1 lb	1	239	24.1	24.3	24.3
1-4 lb	2	538	54.2	54.8	79.1
5-10 lb	3	173	17.4	17.6	96.7
> 10 lb	4	32	3.2	3.3	100.0
	0	10	1.0	MISSING	
	TOTAL	992	100.0	100.0	

Question 3G Approximately how many years of fishing experience do you have?

VALUE	FREQUENCY	PERCENT	CUMULATIVE PERCENT
0-4	59	6.0	6.0
5-9	77	7.8	13.8
10-14	132	13.3	27.1
15-19	140	14.2	41.2
20-24	172	17.4	58.6
25-29	126	12.7	71.3
30-34	125	12.6	83.9
35-39	66	6.7	90.6
40-44	49	5.0	95.6
45-49	19	1.9	97.5
50-60	24	2.5	100.0
99	3	MISSING	

MEAN	21.456	MEDIAN	20.000	STD DEV	11.690
VARIANCE	136.657	MINIMUM	.000	MAXIMUM	60.000

Question 3H Do you practice catch and release fishing?

VALUE LABEL	VALUE	FREQUENCY	PERCENT	VALID PERCENT	CUM PERCENT
yes	1	782	78.8	79.4	79.4
no	2	203	20.5	20.6	100.0
	0	7	.7	MISSING	
	TOTAL	992	100.0	100.0	

Question 3I How far ahead do you usually plan fishing trips?

VALUE LABEL	VALUE	FREQUENCY	PERCENT	VALID PERCENT	CUM PERCENT
on same day	1	67	6.8	6.9	6.9
day before	2	157	15.8	16.2	23.0
few days before	3	380	38.3	39.1	62.1
a week before	4	201	20.3	20.7	82.8
few weeks before	5	126	12.7	13.0	95.8
more than a month before	6	41	4.1	4.2	100.0
	0	20	2.0	MISSING	
	TOTAL	992	100.0	100.0	

Question 3J Who do you usually go fishing with?

VALUE LABEL	VALUE	FREQUENCY	PERCENT	VALID PERCENT	CUM PERCENT
spouse	1	179	18.0	18.9	18.9
friends	2	378	38.1	40.0	58.9
family	3	328	33.1	34.7	93.7
nobody	4	60	6.0	6.3	100.0
	0	47	4.7	MISSING	
	TOTAL	992	100.0	100.0	

Question 4 If overfishing becomes a problem in Alberta lakes and rivers, which of the following management options would you most like to see used to address the problem?

VALUE LABEL	VALUE	FREQUENCY	PERCENT	VALID PERCENT	CUM PERCENT
shorter season	1	34	3.4	3.5	3.5
size limit	2	127	12.8	12.9	16.4
no bait fishing	3	38	3.8	3.9	20.2
increase licence fee	4	16	1.6	1.6	21.8
increased stocking	5	238	24.0	24.2	46.0
more enforcement	6	102	10.3	10.4	56.4
catch and release	7	265	26.7	26.9	83.3
larger fines for violations	8	92	9.3	9.3	92.7
other	9	72	7.3	7.3	100.0
	0	8	.8	MISSING	
	TOTAL	992	100.0	100.0	

Question 4A Alternate management option

VALUE LABEL	VALUE	FREQUENCY	PERCENT	VALID PERCENT	CUM PERCENT
no management needed	0	1	1.4	1.5	1.5
combination of above	1	51	70.8	78.5	80.0
barbless hooks	3	1	1.4	1.5	81.5
no commercial fishing	4	5	7.0	7.7	89.2
smaller limits, season	5	2	2.8	3.1	92.3
no fishing at all	6	1	1.4	1.5	93.8
less netting, (winter)	7	4	5.6	6.2	100.0
	9	7	9.7	MISSING	
	TOTAL	72	100.0	100.0	

Question 5 How much do you spend on fishing over a typical fishing season?

VALUE LABEL	VALUE	FREQUENCY	PERCENT	VALID PERCENT	CUM PERCENT
$0-$50	1	43	4.3	4.3	4.3
$51-$100	2	116	11.7	11.7	16.1
$101-$200	3	163	16.4	16.5	32.6
$201-$300	4	180	18.1	18.2	50.8
$301-$500	5	204	20.6	20.6	71.4
> $501	6	283	28.5	28.6	100.0
	0	3	.3	MISSING	
	TOTAL	992	100.0	100.0	

Question 6 Did you go sportfishing in Alberta in 1990?

VALUE LABEL	VALUE	FREQUENCY	PERCENT	VALID PERCENT	CUM PERCENT
yes	1	975	98.3	98.9	98.9
no	2	11	1.1	1.1	100.0
	0	6	.6	MISSING	
	TOTAL	992	100.0	100.0	

Question 7 Which of the following fishing sites have you ever visited or heard of as a fishing site?

Fishing Site	UNAWARE OF SITE FREQUENCY	UNAWARE OF SITE PERCENT	AWARE OF SITE FREQUENCY	AWARE OF SITE PERCENT
Upper Oldman River	579	58.4	413	41.6
Livingstone River	667	67.2	325	32.8
Dutch Creek	601	60.6	391	39.4
Racehorse Creek	684	69.0	308	31.0
Oldman River to peigan reserve	616	62.1	376	37.9
Crowsnest Lake	645	65.0	347	35.0
Allison (Chinook) Lake	750	75.6	242	24.4
Crowsnest River to Blairmore	702	70.8	290	29.2
Crowsnest River to byron Creek	729	73.5	263	26.5
Crowsnest River to lundbrook Falls	577	58.2	415	41.8
Crowsnest River to mouth	593	59.8	399	40.2
Burmis Lake	735	74.1	257	25.9
Castle River	571	57.6	421	42.4
Lynx Creek	744	75.0	248	25.0
Carbondale River	776	78.2	216	21.8
West castle River	670	67.5	322	32.5
Beavermines Lake	457	46.1	535	53.9
Barnaby (southfork) Lake	849	85.6	143	14.4
South castle River	741	74.7	251	25.3
Crooked Creek	913	92.0	79	8.0
Mami (paine) Lake	741	74.7	251	25.3
Cottonwood Creek	907	91.4	85	8.6
Bathing Lake	910	91.7	82	8.3
Butcher Lake	956	96.4	36	3.6
Dipping vat Lake	815	82.2	177	17.8
Drywood Creek	906	91.3	86	8.7
Waterton Reservoir	611	61.6	381	38.4
Cochrane Lake	856	86.3	136	13.7
Beauvais Lake	523	52.7	469	47.3
Waterton River	687	69.3	305	30.7
Oldman River at fort macleod	634	63.9	358	36.1
Willow Creek	707	71.3	285	28.7
Chain Lake	378	38.1	614	61.9
Mcgregor Reservoir	413	41.6	579	58.4
Travers Reservoir	539	54.3	453	45.7

Question 7 (Continued) Which of the following fishing sites have you ever visited or heard of as a fishing site?

Fishing Site	UNAWARE OF SITE		AWARE OF SITE	
	FREQUENCY	PERCENT	FREQUENCY	PERCENT
Keho Lake	596	60.1	396	39.9
Oldman River to forks	772	77.8	220	22.2
Nicholas sheran park Lake	808	81.5	184	18.5
Henderson Lake	702	70.8	290	29.2
Stafford Reservoir	824	83.1	168	16.9
Mcquillan Lake	905	91.2	87	8.8
Belly River	802	80.8	190	19.2
St mary River to Reservoir	803	80.9	189	19.1
St mary Reservoir	688	69.4	304	30.6
St mary River below Reservoir	802	80.8	190	19.2
Police (outpost) Lake	551	55.5	441	44.5
Cross Coulee Reservoir	904	91.1	88	8.9
Tyrrell Lake	732	73.8	260	26.2
Milk River ridge Reservoir	821	82.8	171	17.2
Goldsprings park pond	928	93.5	64	6.5
Milk River to miners Coulee Creek	903	91.0	89	9.0
Heninger Reservoir	832	83.9	160	16.1
Milk River to montana border	912	91.9	80	8.1
Chin Reservoir	623	62.8	369	37.2
Sherburne Reservoir	863	87.0	129	13.0
Lake south of burdett	889	89.6	103	10.4
Little bow Reservoir	614	61.9	378	38.1
Stonehill Lake	882	88.9	110	11.1
Badger Reservoir	798	80.4	194	19.6
Bow River bassano to mouth	598	60.3	394	39.7
Bow River carseland to bassano	567	57.2	425	42.8
Red deer River to dinosaur park	737	74.3	255	25.7
Brooks childrens pond	872	87.9	120	12.1
Cowoki Reservoir	891	89.8	101	10.2
Tilly b Reservoir	802	80.8	190	19.2
Lake newell	467	47.1	525	52.9
South sask River to border	753	75.9	239	24.1
Echo dale regional park pond	858	86.5	134	13.5
South sask River to rattlesnake	802	80.8	190	19.2
Rattlesnake sauder Reservoir	823	83.0	169	17.0
Cavan Lake	825	83.2	167	16.8
Michell Reservoir	850	85.7	142	14.3
Murray Reservoir	845	85.2	147	14.8
Bullshead Reservoir	846	85.3	146	14.7
Spruce Coulee Reservoir	793	79.9	199	20.1
Elkwater Reservoir	641	64.6	351	35.4
Reesor Lake	701	70.7	291	29.3

Question 8A How many trips did you take in 1990?

VALUE	FREQ	PCT	CUM PCT	VALUE	FREQ	PCT	CUM PCT	VALUE	FREQ	PCT	CUM PCT
1	67	7	7	15	30	3	83	30	39	4	95
2	75	8	14	16	3	0	83	33	1	0	96
3	115	12	26	17	3	0	83	35	7	1	96
4	88	9	35	18	7	1	84	36	1	0	96
5	89	9	44	19	4	0	85	40	9	1	97
6	73	7	51	20	33	3	88	45	4	0	98
7	61	6	57	21	1	0	88	48	1	0	98
8	53	5	63	22	3	0	88	50	11	1	99
9	48	5	67	23	1	0	88	52	1	0	99
10	35	4	71	24	4	0	89	60	2	0	99
11	34	3	74	25	21	2	91	61	1	0	99
12	27	3	77	26	1	0	91	70	2	0	99
13	13	1	78	27	1	0	91	75	2	0	100
14	14	1	80	28	4	0	92	99	3	0	100

MEAN	10.325	MEDIAN	6.000	STD DEV	11.833
VARIANCE	140.022	MINIMUM	1.000	MAXIMUM	99.000

Question 8B Site of fishing trips

CATEGORY LABEL	CODE	COUNT	PCT OF RESPONSES	PCT OF CASES
Upper Oldman River, (NW Branch)	1	63	0.9	6.4
Livingstone River	2	51	0.7	5.1
Dutch Creek	3	62	0.9	6.3
Racehorse Creek	4	38	0.5	3.8
Oldman River; Hwy 22 bridge to Peigan Reserve	5	37	0.5	3.7
Crowsnest Lake	6	42	0.6	4.2
Chinook Lake (Allison Lake)	7	37	0.5	3.7
Crowsnest River; headwaters to Blairmore (Legion bridge)	8	11	0.2	1.1
Crowsnest River; Blairmore to Passberg bridge (Byron Cr.)	9	12	0.2	1.2
Crowsnest River; Passberg bridge to Lundbreck Falls	10	49	0.7	4.9
Crowsnest River; Lundbreck Falls to mouth (Blairmore Pincher Cr area)	11	79	1.1	8.0
Burmis Lake	12	7	0.1	0.7
Castle River	13	90	1.3	9.1
Lynx Creek	14	40	0.6	4.0
Carbondale River	15	42	0.6	4.2
West Castle River	16	48	0.7	4.8
Beavermines Lake	17	172	2.5	17.3
Barnaby (Southfork) Lake	18	4	0.1	0.4
South Castle River	19	43	0.6	4.3
Crooked Creek	20	4	0.1	0.4
Mami (Paine) Lake	21	106	1.5	10.7
Cottonwood Creek	22	4	0.1	0.4

Question 8B (Continued) Site of fishing trips

CATEGORY LABEL	CODE	COUNT	PCT OF RESPONSES	PCT OF CASES
Bathing Lake	23	13	0.2	1.3
Butcher Lake	24	1	0.0	0.1
Dipping Vat Lake	25	20	0.3	2.0
Waterton Reservoir	27	35	0.5	3.5
Cochrane Lake	28	19	0.3	1.9
Beauvais Lake	29	83	1.2	8.4
Waterton River	30	27	0.4	2.7
Oldman River - near Fort Macleod	31	17	0.2	1.7
Willow Creek	32	26	0.4	2.6
Chain Lake	33	234	3.3	23.6
McGregor Reservoir	34	308	4.4	31.0
Travers Reservoir	35	171	2.4	17.2
Keho Lake	36	94	1.3	9.5
Oldman River; Monarch to Forks	37	12	0.2	1.2
Nicholas Sheran Park Lake	38	29	0.4	2.9
Henderson Lake	39	27	0.4	2.7
Stafford Reservoir	40	12	0.2	1.2
McQuillan Lake	41	8	0.1	0.8
Belly River	42	8	0.1	0.8
St Mary River; Upper to Reservoir	43	7	0.1	0.7
St Mary Reservoir	44	35	0.5	3.5
St Mary River below Reservoir	45	5	0.1	0.5
Police (Outpost) Lake	46	47	0.7	4.7
Cross Coulee Reservoir	47	26	0.4	2.6
Tyrrell Lake	48	10	0.1	1.0
Milk River Ridge Reservoir	49	49	0.7	4.9
Goldsprings Park pond	50	11	0.2	1.1
Milk River; mouth of the North Milk River to Miners Coulee Cr.	51	1	0.0	0.1
Heninger Reservoir	52	36	0.5	3.6
Milk River-Miners Coulee Creek to Montana border	53	3	0.0	0.3
Chin Reservoir	54	157	2.2	15.8
Sherburne Reservoir	55	91	1.3	9.2
Unnamed Lake-near Burdett	56	54	0.8	5.4
Little Bow Reservoir	57	44	0.6	4.4
Stonehill Lake	58	12	0.2	1.2
Badger Reservoir	59	69	1.0	7.0
Bow River; Bassano Dam to mouth	60	89	1.3	9.0
Bow River; Carseland to Bassano	61	220	3.1	22.2
Red Deer River; Finegan to Dinosaur Provincial Park	62	12	0.2	1.2
Brooks Childrens pond	63	5	0.1	0.5
Cowoki Reservoir	64	12	0.2	1.2
Tilly B Reservoir	65	22	0.3	2.2
Lake Newell	66	198	2.8	20.0
South Saskatchewan River; Rattlesnake to Saskatchewan border	67	54	0.8	5.4
Echo Dale Regional Park	68	12	0.2	1.2
South Saskatchewan River; forks to Rattlesnake	69	29	0.4	2.9

Question 8B (Continued) Site of fishing trips

CATEGORY LABEL	CODE	COUNT	PCT OF RESPONSES	PCT OF CASES
Rattlesnake/Sauder Reservoir	70	79	1.1	8.0
Cavan Lake	71	9	0.1	0.9
Michell Reservoir	72	24	0.3	2.4
Murray Reservoir	73	93	1.3	9.4
Bullshead Reservoir	74	10	0.1	1.0
Spruce Coulee Reservoir	75	114	1.6	11.5
Elkwater Lake	76	84	1.2	8.5
Reesor Lake	77	207	3.0	20.9
Bow River, general	78	448	6.4	45.2
Crowsnest River, general	79	161	2.3	16.2
Milk River, general	80	6	0.1	0.6
Oldman River, general	81	98	1.4	9.9
Red Deer River, general	82	65	0.9	6.6
St Mary River, general	83	6	0.1	0.6
South Saskatchewan River, general	84	49	0.7	4.9
Outside of province	85	68	1.0	6.9
Catarack Creek	87	8	0.1	0.8
Severn Reservoir	88	15	0.2	1.5
Weed Lake	89	5	0.1	0.5
North Ram River	91	12	0.2	1.2
Kananaskis Lake	92	63	0.9	6.4
Highwood River	93	74	1.1	7.5
Sheep River	94	48	0.7	4.8
Wolf Lake	96	2	0.0	0.2
Moose Lake	97	8	0.1	0.8
Pigeon Lake	98	6	0.1	0.6
Spray Lake Reservoir	99	69	1.0	7.0
Name unknown	100	94	1.3	9.5
Lessor Slave Lake	101	5	0.1	0.5
Sylvan Lake	102	16	0.2	1.6
Lake Minnewanka	103	31	0.4	3.1
Krypt Lake	104	1	0.0	0.1
Waterton Park (chain Lakes)	105	1	0.0	0.1
Park Lake	106	20	0.3	2.0
Lost Lake (Vauxhall area)	107	4	0.1	0.4
Pine Lake	109	48	0.7	4.8
Dickson dam	110	14	0.2	1.4
Crandell Lake, (Waterton Ntl Pk)	111	2	0.0	0.2
Ridge park	112	5	0.1	0.5
Little Chestener Lake	114	1	0.0	0.1
Hidden Lake (Bragg Creek area)	115	1	0.0	0.1
Crawling Valley Reservoir	116	104	1.5	10.5
Mckinnon flats, (Bow River)	117	3	0.0	0.3
Elbow River	118	37	0.5	3.7
Buck Lake	119	9	0.1	0.9
Brazeau River	121	1	0.0	0.1
Gull Lake	122	31	0.4	3.1
Beaver Lake	128	7	0.1	0.7
Battle Lake	129	1	0.0	0.1
Cow Lake	131	4	0.1	0.4
Ram River	132	15	0.2	1.5

Question 8B (Continued) Site of fishing trips

CATEGORY LABEL	CODE	COUNT	PCT OF RESPONSES	PCT OF CASES
Black Nugget mine pit, (Camrose)	133	3	0.0	0.3
Carson Lake	136	3	0.0	0.3
Wabamum Lake	137	3	0.0	0.3
Fork Lake	138	1	0.0	0.1
James River	139	5	0.1	0.5
Stauffer Creek	141	15	0.2	1.5
Pinehurst Lake	147	4	0.1	0.4
Raven River	149	17	0.2	1.7
Burnstick Lake	151	9	0.1	0.9
Phyllis Lake	152	1	0.0	0.1
Cold Lake	154	3	0.0	0.3
Forestburg Lake	155	7	0.1	0.7
Pierce Lake	157	1	0.0	0.1
Clearwater River	159	12	0.2	1.2
Rock Lake	162	3	0.0	0.3
Glenmore Reservoir	163	55	0.8	5.5
Chester Lake	166	1	0.0	0.1
Jumping Pound Creek	167	10	0.1	1.0
Twin Lakes	168	4	0.1	0.4
Peppers Lake	169	3	0.0	0.3
Saskatchewan River	170	9	0.1	0.9
Banff Lake areas	171	1	0.0	0.1
Dickson pond	172	2	0.0	0.2
Siebert Lake	175	3	0.0	0.3
Swan Lake	177	12	0.2	1.2
Medicine Lake	178	1	0.0	0.1
Prairie Creek	180	27	0.4	2.7
Fortress Lake	182	1	0.0	0.1
Chestermere Lake	185	19	0.3	1.9
Ghost Lake	186	40	0.6	4.0
Swawell	187	4	0.1	0.4
Touchwood Lake	188	1	0.0	0.1
Strubel Lake	192	8	0.1	0.8
Buffalo Lake	195	16	0.2	1.6
Fallen Timber Creek	196	11	0.2	1.1
Swan River	197	2	0.0	0.2
Dixon pond	198	1	0.0	0.1
Burnt Timber Creek	202	10	0.1	1.0
Sturgeon Lake	203	4	0.1	0.4
Thirteen (13) mile	205	4	0.1	0.4
Fish Lake	206	6	0.1	0.6
Coal Lake	207	1	0.0	0.1
Lake Isle	208	4	0.1	0.4
Pierre Grey Lake	211	1	0.0	0.1
Smokey River	212	2	0.0	0.2
Sheep Creek	213	1	0.0	0.1
Cold Creek	215	1	0.0	0.1
Fickel Lake	221	1	0.0	0.1
Gap Lake	223	9	0.1	0.9
Brown Creek	224	2	0.0	0.2
Boon Lake	225	1	0.0	0.1

Question 8B (Continued) Site of fishing trips

CATEGORY LABEL	CODE	COUNT	PCT OF RESPONSES	PCT OF CASES
Taylor Lake	226	2	0.0	0.2
Obrien Lake	227	1	0.0	0.1
Watridge Lake	230	3	0.0	0.3
Ribbon Lake	232	1	0.0	0.1
Todd Creek	234	1	0.0	0.1
Rolling Hills Reservoir	235	10	0.1	1.0
Seebe dam	236	16	0.2	1.6
Dutch Lake	237	1	0.0	0.1
Langdon Reservoir	238	4	0.1	0.4
Eagle Lake	239	14	0.2	1.4
Garner Lake	240	1	0.0	0.1
Michichi Reservoir	241	22	0.3	2.2
Horseshoe power plant	242	12	0.2	1.2
Beaver flat	243	3	0.0	0.3
Lake Missawawi	244	1	0.0	0.1
Bassano dam	246	22	0.3	2.2
Elbow Falls	247	1	0.0	0.1
Mclean Creek pond	248	4	0.1	0.4
Blood Indian Reservoir (Oyen)	250	43	0.6	4.3
Stirling trout pond	251	9	0.1	0.9
Rock Island Lake	252	2	0.0	0.2
Calling Lake	253	1	0.0	0.1
Fish Creek	254	3	0.0	0.3
Kananaskis River	255	3	0.0	0.3
Barrier Lake	256	4	0.1	0.4
Bearspaw dam	260	13	0.2	1.3
Carburn Park (Calgary)	261	1	0.0	0.1
Terrall Reservoir	262	2	0.0	0.2
Writing on Stone Park	263	1	0.0	0.1
Forty mile dam	264	27	0.4	2.7
Anderson dam	265	2	0.0	0.2
Bear pond	266	8	0.1	0.8
Bridgeland Creek	267	1	0.0	0.1
Tay Lake	268	3	0.0	0.3
Three point Creek	269	2	0.0	0.2
Nice Creek	270	1	0.0	0.1
Cripple Creek	271	2	0.0	0.2
Castle Falls	273	6	0.1	0.6
Headwall Lake	274	2	0.0	0.2
Wall Lake	275	1	0.0	0.1
Mckenzie Lake	276	2	0.0	0.2
Lac des Arc	277	2	0.0	0.2
Ghost River	278	5	0.1	0.5
North Saskatchewan River	279	4	0.1	0.4
Sibbald flats	280	16	0.2	1.6
Allan bill pond	281	1	0.0	0.1
Elbow Lake	282	12	0.2	1.2
Mirror Reservoir	283	5	0.1	0.5
Hilers dam	288	1	0.0	0.1
Dogpound Creek	289	18	0.3	1.8
Hector Lake	290	1	0.0	0.1

Question 8B (Continued) Site of fishing trips

CATEGORY LABEL	CODE	COUNT	PCT OF RESPONSES	PCT OF CASES
Mudd Lake (Kanaskis area)	291	1	0.0	0.1
Meadow Creek	292	9	0.1	0.9
Marvel Lake	293	5	0.1	0.5
Pilot pond	294	2	0.0	0.2
Cypress Hills	296	1	0.0	0.1
Ford Creek	297	1	0.0	0.1
Yellow Lake	298	12	0.2	1.2
Rainy Lake	299	2	0.0	0.2
Windsor Lake	300	8	0.1	0.8
Upper Man Lake	301	1	0.0	0.1
Frenchmans Lake	302	2	0.0	0.2
Fairfax Lake	304	1	0.0	0.1
Long Lake	307	1	0.0	0.1
Alford Creek	309	1	0.0	0.1
Two Jack Lake	310	1	0.0	0.1
Winnifred Lake	311	1	0.0	0.1
Glenifer Lake	312	7	0.1	0.7
Island Lake	313	3	0.0	0.3
Cross Lake	314	1	0.0	0.1
Lost Creek	316	5	0.1	0.5
Lac la Biche	317	3	0.0	0.3
Cameron Lake, (Waterton Ntl Pk)	318	3	0.0	0.3
Rawson Lake	319	4	0.1	0.4
William Creek	320	5	0.1	0.5
Waiparous Creek	321	11	0.2	1.1
Johnson Creek	322	4	0.1	0.4
Lesueur Creek	323	9	0.1	0.9
Hidden Creek	324	3	0.0	0.3
Devils head Creek	325	4	0.1	0.4
Tay River	326	7	0.1	0.7
Thunder mountain Lake	327	1	0.0	0.1
Helmer dam	328	2	0.0	0.2
Tombstone Lake	331	1	0.0	0.1
Grizzly Lake	334	3	0.0	0.3
Lees Creek	335	6	0.1	0.6
Klaudts dam	336	4	0.1	0.4
Golden Lake	339	2	0.0	0.2
Shunda Creek	343	7	0.1	0.7
Sunken Lake	345	3	0.0	0.3
Enchant pond	346	4	0.1	0.4
Snaring River (Jasper Ntl Pk)	355	2	0.0	0.2
Fawcett Lake	356	2	0.0	0.2
Athabasca River	357	1	0.0	0.1
Two Lakes	358	1	0.0	0.1
Muriel Lake	360	1	0.0	0.1
Mcvinnie pond	363	10	0.1	1.0
Clear Creek	364	1	0.0	0.1
Dam H (Vauxhall)	365	6	0.1	0.6
Midway Reservoir	367	1	0.0	0.1
Bear Lake	369	7	0.1	0.7
Big Iron Lake	370	10	0.1	1.0

Question 8B (Continued) Site of fishing trips

CATEGORY LABEL	CODE	COUNT	PCT OF RESPONSES	PCT OF CASES
Lost Guide Lake	371	1	0.0	0.1
Grass Lake	372	1	0.0	0.1
Pearce Estate Park (Calgary)	373	1	0.0	0.1
Keeney pond	377	5	0.1	0.5
Margaret Lake	380	4	0.1	0.4
Sauder Reservoir	381	2	0.0	0.2
Grassy Lake	382	29	0.4	2.9
Carnovon Lake	384	7	0.1	0.7
Winchell Lake	385	1	0.0	0.1
Pincher Creek	387	2	0.0	0.2
Dewits pond	388	1	0.0	0.1
Three Isle Lake	389	1	0.0	0.1
Yarrow Creek	390	4	0.1	0.4
East Scarpe Lake	391	3	0.0	0.3
Lys Lake	392	2	0.0	0.2
Foremost dam	393	3	0.0	0.3
Green Lake	394	1	0.0	0.1
Lilian Lake	396	4	0.1	0.4
Snipe Lake	397	1	0.0	0.1
Sperser Lake	398	2	0.0	0.2
Lonesome Lake	399	1	0.0	0.1
Michell Creek	400	1	0.0	0.1
Alexander Creek	401	1	0.0	0.1
Elk River	402	3	0.0	0.3
Storm Lake	404	1	0.0	0.1
Bighorn River	405	1	0.0	0.1
Utikuma Lake	406	3	0.0	0.3
Fincastle Lake	407	3	0.0	0.3
Pickle Jar Lake (Kananaskis area)	408	3	0.0	0.3
Rainy Ridge Lake	410	3	0.0	0.3
Picture Butte Reservoir	411	4	0.1	0.4
Elford Creek	412	1	0.0	0.1
Grotto pond	413	2	0.0	0.2
Pipestone River	414	1	0.0	0.1
Herbert Lake	415	1	0.0	0.1
Horsefly Lake	417	3	0.0	0.3
Daisy Creek	418	2	0.0	0.2
Allison Creek	419	1	0.0	0.1
Scope dam	420	13	0.2	1.3
Cameron Creek	421	3	0.0	0.3
Lee Creek	422	7	0.1	0.7
Johnson Lake	423	2	0.0	0.2
Flathead Creek	424	2	0.0	0.2
Seven persons Creek	425	2	0.0	0.2
Botteral Creek	426	2	0.0	0.2
Owl Lake	427	2	0.0	0.2
Gloria Lake	428	1	0.0	0.1
Flat Creek	429	1	0.0	0.1
Pekisko Creek	430	1	0.0	0.1
Squaw Creek	431	1	0.0	0.1
Cow Creek	433	8	0.1	0.8

Question 8B (Continued) Site of fishing trips

CATEGORY LABEL	CODE	COUNT	PCT OF RESPONSES	PCT OF CASES
Battle River	437	5	0.1	0.5
Muskeg River	438	1	0.0	0.1
Grand Cache Lake	439	1	0.0	0.1
Baptiste River	440	1	0.0	0.1
Mud Creek	441	3	0.0	0.3
Skunk Creek	442	1	0.0	0.1
Calolside dam	443	2	0.0	0.2
Goldeye Lake	444	1	0.0	0.1
Duck Lake	446	1	0.0	0.1
Spring Creek	447	1	0.0	0.1
Kenney Coulee	448	4	0.1	0.4
Bow Island town pond	450	4	0.1	0.4
Dalmead Reservoir	452	1	0.0	0.1
Fisher Creek	453	4	0.1	0.4
Emerald Lake	454	2	0.0	0.2
Factory Lake	455	3	0.0	0.3
Powder Lake	457	1	0.0	0.1
Marie Lake	458	2	0.0	0.2
Vetch Creek	460	2	0.0	0.2
Swan Creek	461	2	0.0	0.2
Camp Creek	463	1	0.0	0.1
Clarks Reservoir	468	1	0.0	0.1
Mcfinney pond	469	2	0.0	0.2
Sugar factory Lake, Taber	472	3	0.0	0.3
Glacier River	473	1	0.0	0.1
Mclaren Lake	476	1	0.0	0.1
Mann Lake	477	1	0.0	0.1
Meeting Creek	480	1	0.0	0.1
Hay River	481	1	0.0	0.1
Little Bow River	482	16	0.2	1.6
Trap Creek	483	1	0.0	0.1
Berland Creek	484	1	0.0	0.1
Sundance Creek	485	1	0.0	0.1
Lawrence Creek	488	1	0.0	0.1
Blackstone Creek	491	4	0.1	0.4
Lake Haze	494	1	0.0	0.1
Missawawi Lake	498	1	0.0	0.1
Battle Creek	499	3	0.0	0.3
Libby dam	501	2	0.0	0.2
Moore Lake	502	1	0.0	0.1
Bow City Lake	503	12	0.2	1.2
Sparrows egg Lake	518	1	0.0	0.1
Maude Lake	519	4	0.1	0.4
Christina Lake	520	2	0.0	0.2
Carrington River	521	1	0.0	0.1
Trout Creek	523	1	0.0	0.1
Rockbound Lake	524	1	0.0	0.1
Harlech pond	525	1	0.0	0.1
Loomis Lake	527	1	0.0	0.1
Surveyors Lake	528	1	0.0	0.1
Bow Provincial Park	533	2	0.0	0.2

Question 8B (Continued) Site of fishing trips

CATEGORY LABEL	CODE	COUNT	PCT OF RESPONSES	PCT OF CASES
Harold Creek	534	3	0.0	0.3
Victory Creek	541	1	0.0	0.1
Wabasco Lake	542	1	0.0	0.1
Wizzard Lake	544	2	0.0	0.2
Mill Creek	546	1	0.0	0.1
Little Bow Provincial Park	547	4	0.1	0.4
Marsh Lake	549	1	0.0	0.1
Romeo Lake	552	9	0.1	0.9
Canyon Creek	553	1	0.0	0.1
Fitzsimmons Creek	554	1	0.0	0.1
Langdon River	555	1	0.0	0.1
Crypt Lake (Waterton Ntl Pk)	556	2	0.0	0.2
Brewster Creek	562	1	0.0	0.1
Heart Lake	563	1	0.0	0.1
Shannon Lake	565	1	0.0	0.1
George Creek	566	2	0.0	0.2
Coal Creek	567	1	0.0	0.1
Wardlow River	571	1	0.0	0.1
Bertha Lake (Waterton Ntl PK)	572	3	0.0	0.3
Gardner Creek	573	1	0.0	0.1
Cat Creek	574	1	0.0	0.1
Jensen dam	576	2	0.0	0.2
Private dam/pond/dugout	577	6	0.1	0.6
Milo Reservoir	579	1	0.0	0.1
Paddy flats	580	1	0.0	0.1
Barre Lake	582	1	0.0	0.1
Lake of Horns	583	1	0.0	0.1
Spring Point beaver pond	586	1	0.0	0.1
Policemans flats, Bow River	587	1	0.0	0.1
Red Lodge Park	589	2	0.0	0.2
Lake Kokanosa	592	1	0.0	0.1
Kickamen Lake	593	1	0.0	0.1
Emerson Lake	594	2	0.0	0.2
Chungo River	595	1	0.0	0.1
Heart River dam	600	1	0.0	0.1
Mosquito Creek	607	1	0.0	0.1
Spray River	608	1	0.0	0.1
Medicine hat College pond	612	3	0.0	0.3
University Reservoir, Lethbridge	613	1	0.0	0.1
Beaver Creek	635	1	0.0	0.1
TOTAL RESPONSES		6998	100.0	705.4

Question 8C Distance to site

DISTANCE TO SITE	COUNT	PCT OF RESPONSES	PCT OF CASES
1-10	956	14.3	137.6
11-19	352	5.3	50.6
20-29	486	7.3	69.9
30-39	398	6.0	57.3
40-49	592	8.9	85.2
50-59	418	6.3	60.1
60-69	529	7.9	76.1
70-79	470	7.1	67.6
80-89	356	5.3	51.2
90-99	332	5.0	47.8
100-109	479	7.2	68.9
110-119	113	1.7	16.3
120-129	269	4.0	38.7
130-139	87	1.3	12.5
140-149	74	1.1	10.6
150-159	187	2.8	26.9
160-169	68	1.0	9.8
170-180	33	0.5	4.7
180-190	90	1.4	12.9
190-199	20	0.3	2.9
200-249	178	2.7	25.6
250-299	50	0.8	7.2
300-349	49	0.7	7.1
350-399	17	0.3	2.4
400-449	10	0.2	1.4
450-400	4	0.1	0.6
500-549	9	0.1	1.3
550-599	4	0.1	0.6
600-649	12	0.2	1.7
650-699	1	0.0	0.1
700-749	6	0.1	0.9
750-799	1	0.0	0.1
800-899	5	0.1	0.7
900-999[1]	10	0.2	1.4
TOTAL RESPONSES	6665	100.0	695.0
33 MISSING CASES		959 VALID CASES	

[1]The value of 999 was used for any value of 999 or greater.

Question 8D Size of party

PARTY SIZE	COUNT	PCT OF RESPONSES	PCT OF CASES
1	820	12.1	85.8
2	3172	46.8	331.8
3	1170	17.3	122.4
4	1030	15.2	107.7
5	245	3.6	25.6
6	160	2.4	16.7
7	46	0.7	4.8
8	55	0.8	5.8
9	18	0.3	1.9
10	27	0.4	2.8
11	3	0.0	0.3
12	6	0.1	0.6
13	2	0.0	0.2
14	5	0.1	0.5
15	5	0.1	0.5
16	3	0.0	0.3
18	1	0.0	0.1
25	1	0.0	0.1
30	1	0.0	0.1
40	1	0.0	0.1
50	1	0.0	0.1
TOTAL RESPONSES	6772	100.0	708.4

36 MISSING CASES 956 VALID CASES

Question 8E Fish species sought

CATEGORY LABEL	CODE	COUNT	PCT OF RESPONSES	PCT OF CASES
walleye	1	511	6.2	52.7
rainbow trout	2	633	7.7	65.3
brown trout	3	238	2.9	24.6
brook trout	4	87	1.1	9.0
cutthroat trout	5	163	2.0	16.8
trout (unspecified elsewhere)	6	3218	38.9	332.1
northern pike	7	2195	26.6	226.5
whitefish	8	518	6.3	53.5
perch	9	233	2.8	24.0
goldeye	10	74	0.9	7.6
arctic grayling	11	40	0.5	4.1
Lake trout	12	86	1.0	8.9
salmon	13	20	0.2	2.1
other, (ling, sauger, suckers,	14	108	1.3	11.1
anything can catch	15	70	0.8	7.2
pickeral	16	33	0.4	3.4
sturgeon	17	38	0.5	3.9
TOTAL RESPONSES		8265	100.0	852.9

23 MISSING CASES 969 VALID CASES

Question 8F Number of fish caught

FISH CAUGHT	COUNT	PCT OF RESPONSES	PCT OF CASES
1	661	13.5	73.3
2	872	17.8	96.7
3	606	12.4	67.2
4	542	11.0	60.1
5	406	8.3	45.0
6	301	6.1	33.4
7	134	2.7	14.9
8	192	3.9	21.3
9	85	1.7	9.4
10	275	5.6	30.5
11	34	0.7	3.8
12	97	2.0	10.8
13	34	0.7	3.8
14	24	0.5	2.7
15	135	2.8	15.0
16	22	0.4	2.4
17	11	0.2	1.2
18	30	0.6	3.3
19	13	0.3	1.4
20	108	2.2	12.0
21	10	0.2	1.1
22	9	0.2	1.0
23	11	0.2	1.2
24	9	0.2	1.0
25	43	0.9	4.8
26	5	0.1	0.6
27	4	0.1	0.4
28	7	0.1	0.8
29	1	0.0	0.1
30-39	94	1.9	10.4
40-49	44	0.9	4.9
50-59	28	0.6	3.1
60-69	18	0.4	2.0
70-79	8	0.2	0.9
80-89	6	0.1	0.7
90-99	3	0.1	0.3
100-149	13	0.3	1.4
150	1	0.0	0.1
200	7	0.1	0.8
225	1	0.0	0.1
300	1	0.0	0.1
354	1	0.0	0.1
450	1	0.0	0.1
TOTAL RESPONSES	4906	100.0	543.9

90 MISSING CASES 902 VALID CASES

Question 8G Number of fish released

FISH NUMBER	COUNT	PCT OF RESPONSES	PCT OF CASES
1	453	15.2	66.1
2	579	19.5	84.5
3	337	11.3	49.2
4	286	9.6	41.8
5	242	8.1	35.3
6	183	6.2	26.7
7	75	2.5	10.9
8	99	3.3	14.5
9	35	1.2	5.1
10	199	6.7	29.1
11	17	0.6	2.5
12	38	1.3	5.5
13	24	0.8	3.5
14	15	0.5	2.2
15	76	2.6	11.1
16	16	0.5	2.3
17	5	0.2	0.7
18	10	0.3	1.5
19	9	0.3	1.3
20	83	2.8	12.1
21	5	0.2	0.7
22	3	0.1	0.4
23	2	0.1	0.3
24	4	0.1	0.6
25	24	0.8	3.5
26	2	0.1	0.3
27	2	0.1	0.3
28	5	0.2	0.7
29	3	0.1	0.4
30-39	57	1.9	8.3
40-49	27	0.9	3.9
50-59	18	0.6	2.6
60-69	10	0.3	1.5
70-79	4	0.1	0.6
80-89	5	0.2	0.7
90-99	3	0.1	0.4
100-149	9	0.3	1.3
150-199	5	0.2	0.7
200	2	0.1	0.3
220	1	0.0	0.1
270	1	0.0	0.1
400	1	0.0	0.1
TOTAL RESPONSES	2974	100.0	434.2

307 MISSING CASES 685 VALID CASES

Question 8H Type of waterbody

CATEGORY LABEL	CODE	COUNT	PCT OF RESPONSES	PCT OF CASES
River	1	2007	28.8	202.9
Lake	2	3425	49.1	346.3
Stream, Creek, brook	3	613	8.8	62.0
Pond, mine pit	4	137	2.0	13.9
Reservoir	5	777	11.1	78.6
Ocean	6	12	0.2	1.2
TOTAL RESPONSES		6971	100.0	704.9

3 MISSING CASES 989 VALID CASES

Question 8I Length of fishing trip[2]

CODE	COUNT	PCT OF RESPONSES	PCT OF CASES
1	826	44.6	168.9
2	695	37.5	142.1
3	190	10.3	38.9
4	33	1.8	6.7
5	23	1.2	4.7
6	28	1.5	5.7
7	8	0.4	1.6
8	8	0.4	1.6
9	9	0.5	1.8
10	8	0.4	1.6
11	3	0.2	0.6
12	6	0.3	1.2
13	4	0.2	0.8
14	4	0.2	0.8
15	1	0.1	0.2
16	4	0.2	0.8
22	1	0.1	0.2
34	1	0.1	0.2
TOTAL RESPONSES	1852	100.0	378.7

503 MISSING CASES 489 VALID CASES

[2]This is computed by subtracting the end date from the start date on the trip calendar.

Question 10 What is your place of residence (nearest city or town)

VALUE	FREQ	PCT	CUM PCT	VALUE	FREQ	PCT	CUM PCT	VALUE	FREQ	PCT	CUM PCT
2	13	1	1	133	9	1	57	256	5	1	95
13	3	0	2	134	3	0	58	262	1	0	95
14	5	1	2	139	1	0	58	266	2	0	95
18	1	0	2	141	3	0	58	272	1	0	96
19	2	0	2	145	3	0	58	273	1	0	96
26	2	0	3	153	3	0	59	278	1	0	96
29	7	1	3	159	106	11	70	281	2	0	96
34	1	0	4	162	1	0	70	283	2	0	96
35	5	1	4	165	1	0	70	284	1	0	96
38	27	3	7	172	100	10	80	288	1	0	96
41	391	40	47	173	2	0	80	289	2	0	97
43	2	0	47	175	2	0	80	290	1	0	97
45	2	0	48	177	1	0	81	291	2	0	97
46	8	1	48	185	2	0	81	294	1	0	97
51	1	0	49	188	1	0	81	296	1	0	97
58	14	1	50	190	13	1	82	298	5	1	98
59	1	0	50	191	1	0	82	299	1	0	98
60	1	0	50	193	2	0	83	300	2	0	98
62	14	1	52	197	4	0	83	301	1	0	98
63	4	0	52	198	18	2	85	302	2	0	98
65	5	1	53	201	5	1	85	304	1	0	98
66	1	0	53	205	8	1	86	305	3	0	99
68	2	0	53	206	15	2	88	306	1	0	99
69	1	0	53	207	14	1	89	307	1	0	99
80	2	0	53	208	2	0	89	312	1	0	99
84	10	1	54	213	2	0	90	315	1	0	99
85	2	0	54	232	3	0	90	320	1	0	99
87	1	0	55	233	1	0	90	322	2	0	99
90	1	0	55	234	4	0	90	323	1	0	99
95	1	0	55	237	4	0	91	324	1	0	100
101	3	0	55	243	5	1	91	326	1	0	100
104	6	1	56	244	28	3	94	331	1	0	100
121	3	0	56	251	1	0	94	332	1	0	100
122	2	0	56	252	2	0	95	333	1	0	100
127	1	0	56	254	1	0	95				

M I S S I N G D A T A VALUE 0 FREQ 24

Question 11 Are you male or female?

VALUE LABEL	VALUE	FREQUENCY	PERCENT	VALID PERCENT	CUM PERCENT
male	1	815	82.2	82.2	82.2
female	2	176	17.7	17.8	100.0
	0	1	.1	MISSING	
	TOTAL	992	100.0	100.0	

Question 12 What is your age in years?

VALUE	FREQ	PCT	CUM PCT	VALUE	FREQ	PCT	CUM PCT	VALUE	FREQ	PCT	CUM PCT
16	1	0	0	34	38	4	42	52	17	2	86
17	15	2	2	35	52	5	47	53	13	1	88
18	9	1	3	36	37	4	51	54	7	1	88
19	10	1	4	37	43	4	55	55	17	2	90
20	13	1	5	38	22	2	58	56	8	1	91
21	14	1	6	39	31	3	61	57	10	1	92
22	13	1	8	40	33	3	64	58	12	1	93
23	16	2	9	41	29	3	67	59	11	1	94
24	18	2	11	42	25	3	70	60	15	2	96
25	22	2	13	43	18	2	71	61	6	1	96
26	24	2	16	44	21	2	74	62	10	1	97
27	21	2	18	45	25	3	76	63	5	1	98
28	29	3	21	46	17	2	78	64	9	1	99
29	35	4	24	47	14	1	79	65	7	1	100
30	35	4	28	48	10	1	80	68	1	0	100
31	34	3	31	49	12	1	81	69	1	0	100
32	30	3	34	50	16	2	83	70	1	0	100
33	38	4	38	51	16	2	85	72	1	0	100

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VALUE	FREQ
0	5

MEAN	37.989	MEDIAN	36.000	STD DEV	11.569
VARIANCE	133.849	MINIMUM	16.000	MAXIMUM	72.000

Question 13A How many children under the age of 16 are there in your household?

VALUE LABEL	VALUE	FREQUENCY	PERCENT	VALID PERCENT	CUM PERCENT
	0	527	53.1	53.7	53.7
	1	158	15.9	16.1	69.8
	2	218	22.0	22.2	92.0
	3	62	6.3	6.3	98.3
	4	11	1.1	1.1	99.4
	5	6	.6	.6	100.0
	99	10	1.0	MISSING	
	TOTAL	992	100.0	100.0	

MEAN	.870	MEDIAN	.000	STD DEV	1.093
VARIANCE	1.194	MINIMUM	.000	MAXIMUM	5.000

Question 13B If there are any children under 16 in your household, how many of them fish?

VALUE LABEL	VALUE	FREQUENCY	PERCENT	VALID PERCENT	CUM PERCENT
	0	635	64.0	64.7	64.7
	1	161	16.2	16.4	81.1
	2	142	14.3	14.5	95.6
	3	34	3.4	3.5	99.1
	4	8	.8	.8	99.9
	5	1	.1	.1	100.0
	99	11	1.1	MISSING	
	TOTAL	992	100.0	100.0	

MEAN	.595	MEDIAN	.000	STD DEV	.926
VARIANCE	.857	MINIMUM	.000	MAXIMUM	5.000

Question 14A How many adults over 65 are there in your household?

VALUE LABEL	VALUE	FREQUENCY	PERCENT	VALID PERCENT	CUM PERCENT
	0	922	92.9	94.2	94.2
	1	37	3.7	3.8	98.0
	2	17	1.7	1.7	99.7
	3	2	.2	.2	99.9
	4	1	.1	.1	100.0
	99	13	1.3	MISSING	
	TOTAL	992	100.0	100.0	

MEAN	.083	MEDIAN	.000	STD DEV	.368
VARIANCE	.135	MINIMUM	.000	MAXIMUM	4.000

Question 14B If there are any adults over 65 in your household, how many of them fish?

VALUE LABEL	VALUE	FREQUENCY	PERCENT	VALID PERCENT	CUM PERCENT
	0	939	94.7	95.9	95.9
	1	32	3.2	3.3	99.2
	2	7	.7	.7	99.9
	3	1	.1	.1	100.0
	99	13	1.3	MISSING	
	TOTAL	992	100.0	100.0	

MEAN	.050	MEDIAN	.000	STD DEV	.261
VARIANCE	.068	MINIMUM	.000	MAXIMUM	3.000

Question 15 Which of the following categories best represents your annual household income before taxes?

VALUE LABEL	VALUE	FREQUENCY	PERCENT	VALID PERCENT	CUM PERCENT
0-5,000	1	9	.9	1.0	1.0
5,001-10,000	2	16	1.6	1.7	2.7
10,001-15,000	3	41	4.1	4.5	7.2
15,001- 20,000	4	46	4.6	5.0	12.2
20,001-25,000	5	69	7.0	7.5	19.8
25,001-30,000	6	93	9.4	10.2	29.9
30,001-35,000	7	103	10.4	11.2	41.2
35,001-40,000	8	91	9.2	9.9	51.1
40,001-45,000	9	66	6.7	7.2	58.3
45,001-50,000	10	107	10.8	11.7	70.0
50,001-60,000	11	105	10.6	11.5	81.4
60,001-70,000	12	60	6.0	6.6	88.0
70,001-80,000	13	45	4.5	4.9	92.9
80,001-90,000	14	16	1.6	1.7	94.7
90,001-100,000	15	13	1.3	1.4	96.1
>100,000	16	36	3.6	3.9	100.0
	0	61	6.1	MISSING	
	77	15	1.5	MISSING	
	TOTAL	992	100.0	100.0	

MEAN	8.536	MEDIAN	8.000	STD DEV	3.412
VARIANCE	11.641	MINIMUM	1.000	MAXIMUM	16.000

Question 16 Please circle the highest number of years of education that you have completed?

VALUE LABEL	VALUE	FREQUENCY	PERCENT	VALID PERCENT	CUM PERCENT
	5	1	.1	.1	.1
	6	1	.1	.1	.2
	7	5	.5	.5	.7
	8	26	2.6	2.7	3.4
	9	46	4.6	4.7	8.2
	10	79	8.0	8.2	16.3
	11	92	9.3	9.5	25.8
	12	313	31.6	32.3	58.1
	13	79	8.0	8.2	66.3
	14	96	9.7	9.9	76.2
	15	66	6.7	6.8	83.0
	16	84	8.5	8.7	91.6
	17	32	3.2	3.3	94.9
	18	27	2.7	2.8	97.7
	19	12	1.2	1.2	99.0
	20	10	1.0	1.0	100.0
	0	23	2.3	MISSING	
	TOTAL	992	100.0	100.0	

MEAN	12.785	MEDIAN	12.000	STD DEV	2.541
VARIANCE	6.458	MINIMUM	5.000	MAXIMUM	20.000

Question 17 How many hours do you normally work for pay each week?

VALUE	FREQ	PCT	CUM PCT	VALUE	FREQ	PCT	CUM PCT	VALUE	FREQ	PCT	CUM PCT
0	104	11	11	26	2	0	19	54	2	0	91
3	2	0	11	30	17	2	20	55	10	1	92
4	1	0	11	32	3	0	21	56	6	1	93
5	3	0	12	35	18	2	23	60	31	3	96
6	1	0	12	36	13	1	24	65	2	0	96
7	4	0	12	37	49	5	29	68	1	0	96
8	9	1	13	38	12	1	30	70	7	1	97
10	8	1	14	39	4	0	31	77	1	0	97
12	2	0	14	40	389	41	72	80	11	1	98
15	1	0	14	42	12	1	73	84	4	0	99
16	3	0	14	43	1	0	73	88	1	0	99
18	2	0	15	44	30	3	76	90	3	0	99
20	16	2	16	45	33	3	80	96	1	0	99
21	2	0	17	46	5	1	80	98	1	0	99
22	1	0	17	47	1	0	80	100	5	1	100
23	1	0	17	48	12	1	81	112	1	0	100
24	7	1	18	50	86	9	90	168	2	0	100
25	8	1	18	52	2	0	91				

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VALUE	FREQ	VALUE	FREQ	VALUE	FREQ
99	1	999	38		

MEAN	37.559	MEDIAN	40.000	STD DEV	19.041
VARIANCE	362.541	MINIMUM	.000	MAXIMUM	168.000

Question 18 What do you consider your main occupation to be?

VALUE LABEL	VALUE	FREQUENCY	PERCENT	VALID PERCENT	CUM PERCENT
professional and technical	1	168	16.9	17.4	17.4
managerial	2	79	8.0	8.2	25.6
contractor	3	3	.3	.3	25.9
farming (farmer, rancher)	4	40	4.0	4.1	30.1
tradesman	5	162	16.3	16.8	46.9
transportation and communication	6	57	5.7	5.9	52.8
service occupations	7	136	13.7	14.1	66.9
retail sales	8	8	.8	.8	67.7
real estate	9	5	.5	.5	68.3
operative	10	52	5.2	5.4	73.7
armed forces	11	5	.5	.5	74.2
clerical	12	24	2.4	2.5	76.7
labourers (unskilled)	13	31	3.1	3.2	79.9
homemaker	14	55	5.5	5.7	85.6
student	15	31	3.1	3.2	88.8
retired	16	42	4.2	4.4	93.2
not in labour force	17	10	1.0	1.0	94.2
self-employed	18	33	3.3	3.4	97.6
miscellaneous	19	23	2.3	2.4	100.0
	0	28	2.8	MISSING	
	TOTAL	992	100.0	100.0	

Question 19 How many days of paid vacation do you get each year?

VALUE	FREQ	PCT	CUM PCT	VALUE	FREQ	PCT	CUM PCT	VALUE	FREQ	PCT	CUM PCT
0	317	34	34	17	2	0	65	37	1	0	98
2	2	0	34	20	109	12	77	40	1	0	98
3	2	0	34	21	70	7	84	44	1	0	98
4	2	0	34	22	2	0	85	49	1	0	98
5	1	0	34	23	2	0	85	50	4	0	99
6	3	0	35	24	2	0	85	60	3	0	99
7	15	2	36	25	59	6	91	70	1	0	99
8	2	0	37	26	1	0	91	75	2	0	99
9	1	0	37	27	1	0	92	80	1	0	100
10	56	6	43	28	14	1	93	90	1	0	100
12	8	1	44	30	34	4	97	100	1	0	100
13	1	0	44	31	1	0	97	110	1	0	100
14	116	12	56	33	1	0	97	186	1	0	100
15	82	9	65	35	7	1	98				
16	5	1	65	36	3	0	98				

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VALUE	FREQ	VALUE	FREQ
99	1	999	51

MEAN	13.073	MEDIAN	14.000	STD DEV	13.765
VARIANCE	189.467	MINIMUM	.000	MAXIMUM	186.000

Question 20A I take time off work to go fishing

VALUE LABEL	VALUE	FREQUENCY	PERCENT	VALID PERCENT	CUM PERCENT
always	1	54	5.4	6.0	6.0
sometimes	2	241	24.3	26.7	32.6
seldom	3	195	19.7	21.6	54.2
never	4	414	41.7	45.8	100.0
	0	88	8.9	MISSING	
	TOTAL	992	100.0	100.0	

Question 20B I could be working on days I take fishing trips

VALUE LABEL	VALUE	FREQUENCY	PERCENT	VALID PERCENT	CUM PERCENT
always	1	108	10.9	12.1	12.1
sometimes	2	275	27.7	30.9	43.0
seldom	3	161	16.2	18.1	61.1
never	4	347	35.0	38.9	100.0
	0	101	10.2	MISSING	
	TOTAL	992	100.0	100.0	

Question 20C My job has flexible working hours

VALUE LABEL	VALUE	FREQUENCY	PERCENT	VALID PERCENT	CUM PERCENT
always	1	181	18.2	19.7	19.7
sometimes	2	313	31.6	34.0	53.7
seldom	3	150	15.1	16.3	70.0
never	4	276	27.8	30.0	100.0
	0	72	7.3	MISSING	
	TOTAL	992	100.0	100.0	

Appendix C: A Summary of Comments Provided by the Respondents

Space was left at the end of the questionnaire for additional written comments. A total of 658 respondents added comments to their form. These comments were broken down for ease of analysis into 4 basic categories: **(1) management, (2) environment, (3) fishing experience, and (4) the questionnaire.** The breakdown within these categories, and the response rate for each sub-category is outlined on the following page. The total of the listed comment categories is greater than 658 as each respondent could have a comment in more than one category.

(1) Management

The comments on management were for the most part an elaboration of the response to question 4, which asked about management options in the face of overfishing. In the original question, there was a response code for other, with listed responses showing as question 4a. The outline here is similarly broken down, with other management comments also appearing. A total of 140 comments appear that are directly related to the question, with an additional 116 related to the "other" section of the question.

The comments also show that some people are opposed to several of the options listed in the question. The largest opposition appears to be to any increase in the licence fees (19). This could be tempered somewhat, as there were several respondents who would agree with a higher fee if the fee was guaranteed to go to Fish and Wildlife. Those that showed a desire for bait fishing usually suggested that it was in the interest of their children, that bait fishing is easier for them. There was some opposition to stocking of particular fish species, however stocking is desired by a total of 40 respondents. There is a strong desire for stronger enforcement of the regulations, (40) and higher fines (4) for offenders, (see below under "other"). There are some who believe that the commercial and native fishing is destroying the recreational fishery, and that netting should be stopped or severely restricted (27 in total).

In the "other" section, far and away the greatest response was for a combination of the options listed in the question (72 of 116). In particular, there were many within this category that wanted a combination of better enforcement and higher fines. There was some comparison with other jurisdictions, with more thinking Alberta is bad in comparison, than those thinking Alberta is better. Understanding of the regulations seems to be a concern (10). The desire for better access (16) should not be considered as contrary to those wishing to restrict development (29) in the Environment category. The desire for better access is to existing areas, and in particular access for the elderly or handicapped. This also includes more shoreline access to larger water bodies in the region. The desire to restrict development was basically meant for wilderness areas, and against commercial facilities such as golf courses.

(2) Fishing Experience

Fishing experience refers to the enjoyment of the act of fishing, and not to how long the person has been fishing. The general trend of these comments is that catching fish is not nearly as important as the chance to get out of the city, spend time with the family, and provide a wholesome activity for their children, (44 total). There were also 14 people who feel that information about the quality of fishing at various locations is not sufficient. In

connection with the comparison of management with other jurisdictions, 24 persons stated that they no longer fish in Alberta, that the fishing was better elsewhere, including B.C. and Montana. On the other hand 9 thought the fishing in Alberta to be very good.

(3) Environment

Environmental concerns appeared in the comments, most often in relation to littering and general pollution levels at the fishing sites (49). This included water pollution, with specific mention of pulp mill pollution, but water quality was not mentioned as much as littering. As stated above, the development restriction (29) is applied to existing wilderness, or semi-wilderness areas. The poor habitat problem (13) included problems created by agriculture. The people who mentioned a need to raise water levels always were referring to a particular water body, such as Police Lake (twice).

(4) The Questionnaire

Comments concerning the questionnaire itself were mostly negative, except for the 27 who stated they were glad to be included in the survey. The largest complaint was that the survey did not cover the area where the respondent lived\fished. Many of these people also stated that they would appreciate a survey for their area of the province. The other major complaint referee to the fishing diary\trip log that was included as question 8. The general mood was that it would be more efficient and the response more accurate if the question was asked in advance of the fishing season. Many stated that they simply could not remember all of the information on their trips. However, along with the complaint, some stated that they will keep a fishing log from now on, in anticipation of any future surveys.

MANAGEMENT[1]

Elaboration of response to Question 4

- Shorter season (opposed) (1)
- Size limit required (1)
- No bait fishing (2)
- Desire bait fishing (7)
- Increase licence fees (2)
- Do not increase licence fees (19)
- Increase stocking (unspecified) (32)
- Start stocking Bass (4)
- Opposed to stocking Bass (1)
- Start stocking Perch (1)
- Stock Perch and Walleye (2)
- Stock more Trout (1)
- Stock Walleye and Trout (1)
- More enforcement needed (40)
- Prefer catch and release (20)
- Do not agree with catch and release (2)
- Larger fines needed (4)

Elaboration to Question 4.9 (Other)

- No management needed (5)
- Combination of management techniques needed (72)
- Rotational closures desirable (4)
- Barbless hooks should be used (3)
- No commercial fishing in lakes (13)
- Smaller catch limits (7)
- Desire larger catch limits (2)
- Less netting of fish (10)

Other management comments

- Regulations are too hard to understand (10)
- Other provinces have better management (11)
- Alberta has better management than other provinces (3)
- Hatchery problems caused problems recently (3)
- Should control/restrict native fishing (4)
- Should restrict other activities (e.g. water-skiing) on fishing lakes (3)
- Alberta does a good job of managing its fish (12)
- Trout Unlimited does good work (2)
- Fines and licence fees should go directly to Fish and Wildlife (12)
- Too many studies/bureaucracy, not enough action (5)
- Need more fly-in camps (1)
- Need better access to existing areas (16)
- The fishing public needs to be better educated (14)

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[1]The numbers in brackets following each category are the number of responses for that category.

FISHING EXPERIENCE

- Fishing is a family recreation experience (20)
- Fish less than in the past (8)
- Have been too ill to fish recently (3)
- Want information on good fishing sites (14)
- Fish at one spot only (7)
- Don't plan my fishing trips (2)
- Usually fish outside of Alberta (24)
- Trips are a stress reliever, fishing is not a priority (24)
- The fishing in Alberta is good (9)
- The trip is for the sake of children (10)
- Not an avid fisherman (13)

ENVIRONMENT

- Fish and Wildlife stocks are declining (46)
- Raise water levels (6)
- Pollution and littering are major problems (49)
- Should not develop fishing sites (29)
- Habitat for fish is poor (13)
- Forestry practices cause problems (3)

QUESTIONNAIRE

- Should send out diary before the season (27)
- The survey does not apply to my area of the province (67)
- Do not understand the purpose of the survey (2)
- The questions are too vague or complicated (6)
- Do not appreciate questions about income or occupation (1)
- Glad to be a part of the survey (27)
- Cannot give only one response to many of the questions (11)

Fishing in Alberta

Recreation Today and in the Future

Fishing in Alberta: Recreation Today and in the Future

We would like to know what you think about Alberta's angling resources. What do you look for when choosing a fishing site in Alberta? Where do you go fishing? How often? Your answers to the following questions will help us understand your views of fishing in Alberta.

1. When you decide to go sportfishing, how important are the following factors in deciding **where you want to fish**? Please circle **one** response for each question to indicate if the reason is important or not.

	Not Important		Somewhat Important		Very Important
Good chance to catch trophy-sized fish:	1	2	3	4	5
Good chance to catch limit:	1	2	3	4	5
Good chance to catch a preferred species:	1	2	3	4	5
Knowing that the lake is stocked with fish:	1	2	3	4	5
Privacy from other anglers:	1	2	3	4	5
Natural beauty of surroundings:	1	2	3	4	5
Water quality:	1	2	3	4	5
Access to wilderness areas:	1	2	3	4	5
Site limited to fly fishing:	1	2	3	4	5
Distance from home:	1	2	3	4	5
Familiarity with the area:	1	2	3	4	5
Owning land or a cabin near the site:	1	2	3	4	5
Good road access to the site:	1	2	3	4	5
Site with boat access:	1	2	3	4	5
Picnic/Camping facilities at or near the site:	1	2	3	4	5
Friends or relatives live nearby:	1	2	3	4	5

2. Please answer the following questions about trips to your **favorite fishing site.**

A. Approximately how many years have you fished at this site? _____ years

B. Approximately how many times have you visited this site in the past 5 years? (please check **one** box below)

NUMBER OF PREVIOUS VISITS (check **one** box):					
Less than 5		6 - 10		11 - 15	
16 - 20		21 - 30		More than 30	

C. How did you first become aware of this site?

_____

D. What are the specific things about this site that you particularly enjoy?

_____

3. Please answer each of the following questions about a **typical fishing trip** or what you **usually do when you go fishing.**

A. What type of transportation do you usually use to go from your home to a fishing site? Please check **one** of the following.

TRANSPORTATION USED TO GET TO SITE (check **one** box):					
Walk/Bicycle		Motorbike/ATV		Car/Truck/Van	
Camper/R.V.		Other (please specify) _____			

B. How long do you stay at the site on your typical trip to a fishing site? Please check **one** of the following.

1-2 Hours ☐ Half Day ☐ Full Day ☐ 2-3 Days ☐ More Than 3 Days ☐

C. Generally speaking, how **enjoyable** do you find the time spent travelling to the fishing site? Please circle **one** of the following.

	Very Unenjoyable				Very Enjoyable
Time spent travelling to the site is:	1	2	3	4	5

D. What type of fishing do you **usually** do? Please check **one** of the following.

Bait Fishing ☐ Spin Casting ☐ Trolling ☐ Fly Fishing ☐ Ice Fishing ☐

E. What method of fishing do you **usually** use? Please check **one** of the following.

From Shore ☐ Motorboat ☐ Canoe/Rowing ☐ Other ☐

F. In pounds, approximately how much fish do you take home on a typical fishing trip? Please check **one** of the following.

Less than 1 lb ☐ 1-4 lbs. ☐ 5-10 lbs. ☐ More than 10 lbs. ☐

G. Approximately how many years of fishing experience do you have? _____ years

H. Do you practice catch-and-release fishing? YES ☐ NO ☐

I. How far ahead do you usually plan fishing trips? Please check **one** of the following.

I USUALLY PLAN FISHING TRIPS (check **one** box):					
On the Same Day		Day Before		Few Days Before	
A Week Before		Few Weeks Before		More Than a Month Before	

J. Who do you **usually** go fishing with? Please check **one** of the following.

Spouse ☐ Friends ☐ Family ☐ Nobody ☐

4. If overfishing becomes a problem in Alberta lakes and rivers, which of the following management options would you most like to see used to address the problem? Please check <u>one</u> of the following.

MANAGEMENT OPTION I WOULD USE (check **one** box):					
Shorter Season		Size Limit		No Bait Fishing	
Increase Licence Fees		Increase Stocking		More Enforcement	
Catch and Release		Larger Fines for Violations		Other	

5. How much do you spend on fishing over a typical fishing season? (include all costs, such as vehicle costs (gasoline, oil, etc.), license costs, food/accomodation costs, bait costs, etc.). Please check the category below which best represents the amount you spend on fishing.

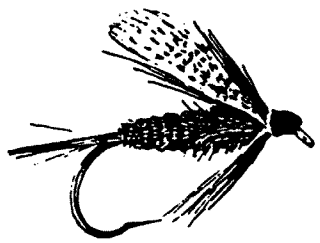
AMOUNT SPENT ON FISHING PER SEASON (check **one** box):					
$0 - $50		$51 - $100		$101 - $200	
$201 - $300		$301 - $500		More Than $500	

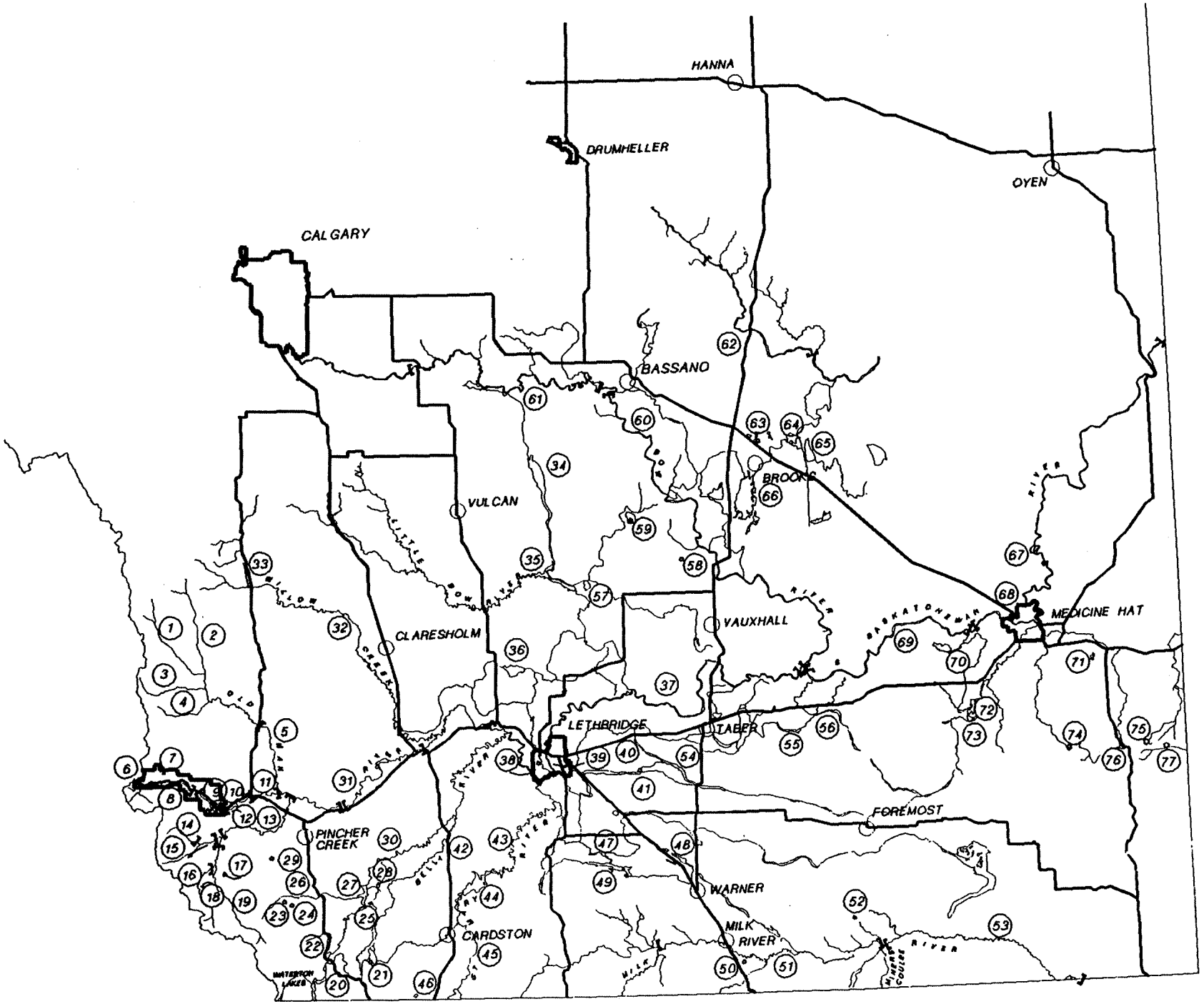
6. Did you go sportfishing in Alberta in **1990**? Please check **one** box below.

YES ☐ NO ☐

If **NO (you did not go fishing in Alberta in 1990)**, please go to **Question 10 on page 8.**

If **YES (you did go fishing in Alberta in 1990), please continue.**
The next 4 pages of questions are very important.
Please try your best to answer them as completely as possible.

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VULCAN
CLARESHOLM
VAUXHALL
MEDICINE HAT
LETHBRIDGE
TABER
FOREMOST
PINCHER CREEK
CARDSTON
WARNER
MILK RIVER
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7. Which of the following fishing sites have you ever **visited or heard of as a fishing site**? (place a check mark beside every site that you have visited or heard of). A map of these sites is provided on the page above and a more detailed map can be found at the end of this survey.

UPPER OLDMAN RIVER AREA
1 ___Upper Oldman River (NW Branch)
2 ___Livingstone River
3 ___Dutch Creek
4 ___Racehorse Creek
5 ___Oldman River-Hwy 22 Bridge to Peigan Reserve

CROWSNEST RIVER AREA
6 ___Crowsnest Lake
7 ___Allison (Chinook) Lake
8 ___Crowsnest River-Headwaters to Blairmore (Legion Bridge)
9 ___Crowsnest River-Blairmore to Passberg Bridge (Byron Cr.)
10 ___Crowsnest River-Passberg Bridge to Lundbreck Falls
11 ___Crowsnest River-Lundbreck Falls to mouth (Blairmore-Pincher Creek Areas)
12 ___Burmis Lake
13 ___Castle River

CASTLE RIVER AREA
14 ___Lynx Creek
15 ___Carbondale River
16 ___West Castle River
17 ___Beavermines Lake
18 ___Barnaby (Southfork) Lake
19 ___South Castle River

WATERTON LAKES AREA
20 ___Crooked Creek
21 ___Mami (Paine) Lake
22 ___Cottonwood Creek

PINCHER CREEK AREA
23 ___Bathing Lake
24 ___Butcher Lake
25 ___Dipping Vat Lake
26 ___Drywood Creek
27 ___Waterton Reservoir
28 ___Cochrane Lake
29 ___Beauvais Lake
30 ___Waterton River
31 ___Oldman River-near Fort MacLeod

CLARESHOLM AREA
32 ___Willow Creek
33 ___Chain Lake

VULCAN AREA
34 ___McGregor Reservoir
35 ___Travers Reservoir

LETHBRIDGE AREA
36 ___Keho Lake
37 ___Oldman River-Monarch to Forks
38 ___Nicholas Sheran Park Lake (in the city of Lethbridge)
39 ___Henderson Lake (in the city of Lethbridge)
40 ___Stafford Reservoir
41 ___McQuillan Lake

CARDSTON AREA
42 ___Belly River
43 ___St. Mary River-Upper to Reservoir
44 ___St. Mary Reservoir
45 ___St. Mary River-Below Reservoir
46 ___Police (Outpost) Lake

MILK RIVER-WARNER AREA
47 ___Cross Coulee Reservoir
48 ___Tyrrell Lake
49 ___Milk River Ridge Reservoir
50 ___Goldsprings Park Pond
51 ___Milk River - mouth of the N. Milk River to Miners Coulee Creek
52 ___Heninger Reservoir
53 ___Milk River -Miners Coulee Creek to Montana Border

TABER AREA
54 ___Chin Reservoir
55 ___Sherburne Reservoir
56 ___Unnamed Lake South of Burdett

VAUXHALL AREA
57 ___Little Bow Reservoir
58 ___Stonehill Lake
59 ___Badger Reservoir

BASSANO AREA
60 ___Bow River-Bassano Dam to mouth
61 ___Bow River-Carseland to Bassano
62 ___Red Deer River-Finegan to Dinosaur Provincial Park

BROOKS AREA
63 ___Brook's Childrens Pond
64 ___Cowoki Reservoir
65 ___Tilly B Reservoir
66 ___Lake Newell

MEDICINE HAT AREA
67 ___S. Saskatchewan River-Rattlesnake to Saskatchewan Border
68 ___Echo Dale Regional Park Pond (in the city of Medicine Hat)
69 ___South Saskatchewan River-Forks to Rattlesnake
70 ___Rattlesnake/Sauder Reservoir
71 ___Cavan Lake
72 ___Michell Reservoir
73 ___Murray Reservoir
74 ___Bullshead Reservoir
75 ___Spruce Coulee Reservoir
76 ___Elkwater Lake
77 ___Reesor Lake

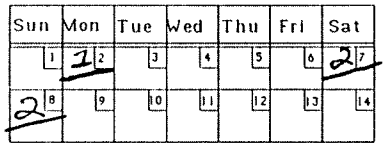
8. For **each** fishing trip you took between **May 1, 1990 and October 31, 1991**, please complete the following information. If you do not recall the exact details, please provide your best guess. If you took more than 15 trips, please list the first 15.
NOTE: This information is very important, please try your best to complete this section and the section below.

Trip No.	Site Name (If in Southern Region, see list of sites provided)	Distance From Home To Site (miles one way)	Party Size (number in group)	Fish Species Sought (eg. trout, pike)	Number Caught / Number Released	Type of Water Body (lake, stream, etc.)
Example	Keho Lake (55)	120 mi.	2	Walleye	2 caught/0 released	lake
1		mi.				
2		mi.				
3		mi.				
4		mi.				
5		mi.				
6		mi.				
7		mi.				
8		mi.				
9		mi.				
10		mi.				
11		mi.				
12		mi.				
13		mi.				
14		mi.				
15		mi.				

If you took more than 15 fishing trips during the 1990 fishing season, how many trips in total did you take? _____ TRIPS

9. The calendar below represents the months of May to October of 1990. **For each fishing trip you described above** please indicate the dates that you took these trips on. Please draw a line through the days that you spent on the trip and number the trip.

For example, if your **first** fishing trip was on Monday, the 2nd, and the on the **second** trip you went on Saturday the 7th and stayed until Sunday the 8th, your response would look like:



MAY, 1990

Sun	Mon	Tue	Wed	Thu	Fri	Sat
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	31		

JUNE, 1990

Sun	Mon	Tue	Wed	Thu	Fri	Sat
					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30

JULY, 1990

Sun	Mon	Tue	Wed	Thu	Fri	Sat
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31				

AUGUST, 1990

Sun	Mon	Tue	Wed	Thu	Fri	Sat
			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30	31	

SEPTEMBER, 1990

Sun	Mon	Tue	Wed	Thu	Fri	Sat
						1
2	3	4		6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30	31					

OCTOBER, 1990

Sun	Mon	Tue	Wed	Thu	Fri	Sat
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	31		

We would like to know some things about you and your family. The answers to these questions tell us about the people who use Alberta's fishery resources.

10. What is your place of residence (nearest city or town): _____

11. Are you male or female (check one): Male ☐ Female ☐

12. What is your age? ____ years

13. How many children under the age of 16 are there in your household? _____ children

If there are children under 16 in your household, how many of them fish? _____ children.

14. How many adults over 65 are there in your household? _____ adults

If there are adults over 65 in your household, how many of them fish? _____ adults.

15. Which of the following categories best represents your annual household income before taxes? (please check one category)

ANNUAL HOUSEHOLD INCOME BEFORE TAXES (check one box):							
$0-$5000		$5001-10000		$10001-15000		$15001-20000	
$20001-25000		$25001-30000		$30001-35000		$35001-40000	
$40001-45000		$45001-50000		$50001-60000		$60001-70000	
$70001-80000		$80001-90000		$90001-100000		More Than $100000	

16. Please circle the highest number of years of education that you have completed (circle only one number below).

Elementary 1 2 3 4 5 6 7 8 9

High School 10 11 12

Postsecondary (University or Technical School) 13 14 15 16 17 18 19 20+

17. How many hours do you normally work for pay each week? _____ hours

18. What do you consider your main occupation to be?

_____

19. How many days of paid vacation do you get each year? _____ days

20. How well do each of the following statements apply to you? Please circle the appropriate number for each question.

	Always	Sometimes	Seldom	Never
I take time off work to go fishing	1	2	3	4
I could be working on days I take fishing trips	1	2	3	4
My job has flexible working hours	1	2	3	4

If you have any other comments or concerns, please do not hesitate to write them on any page of this survey or in the space below.

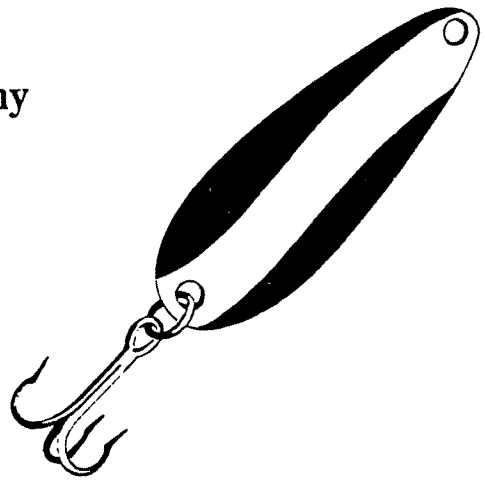
Thank you for completing this survey. Your cooperation is essential to manage Alberta's fishery resources effectively. A card has been included in your envelope. This card is an entry form for our prize draw. If you wish to enter this draw, please write your name and address on this card. The card will be separated from your survey when we receive it so that your responses will remain confidential. Please return this survey, and the card, in the stamped - self addressed envelope to:

The Department of Rural Economy

University of Alberta

Edmonton, Alberta

T6G 2H1

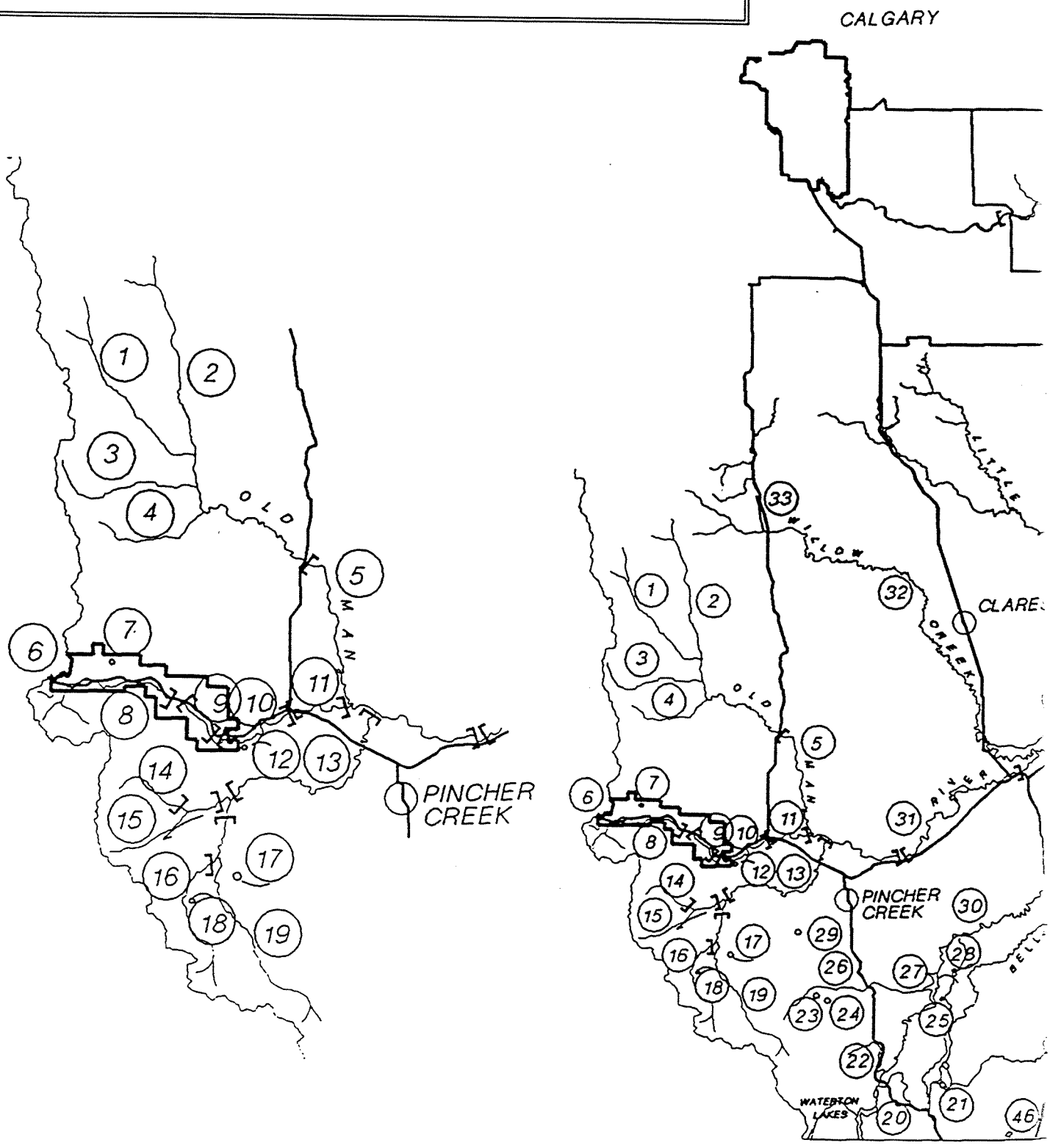


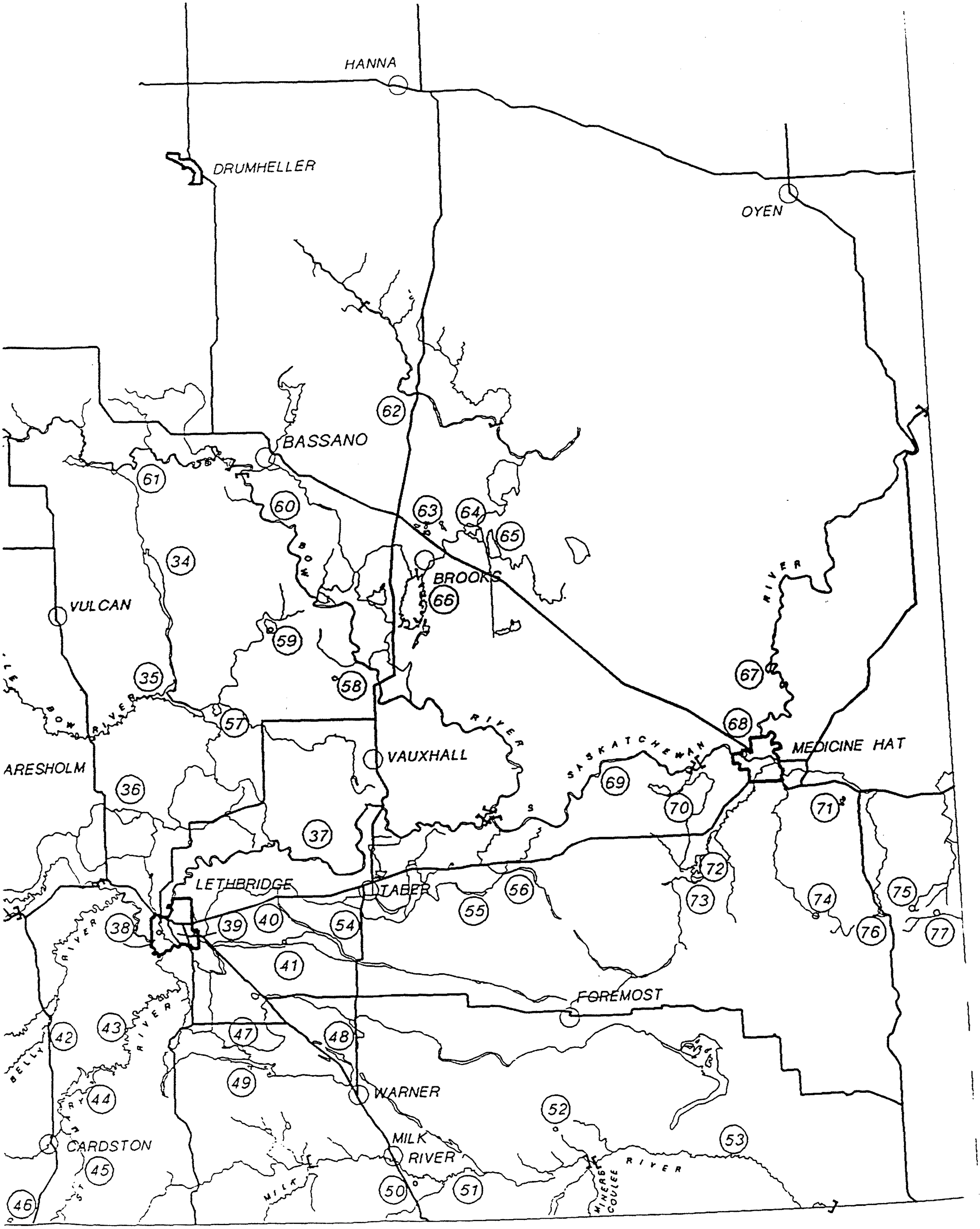
Thank you again for your help.

If you have questions about this survey please call Vic Adamowicz, Department of Rural Economy, University of Alberta at 403-492-4603 or Peter Boxall, Alberta Fish and Wildlife Division at 403-422-4771.

Fishing Sites in Southern Alberta

[ ] These brackets identify sections of a river that are distinct fishing sites.




HANNA
DRUMHELLER
OYEN
BASSANO
BROOKS
VULCAN
VAUXHALL
MEDICINE HAT
ARESHOLM
LETHBRIDGE
TABER
FOREMOST
WARNER
MILK RIVER
CARDSTON
BOW RIVER
BOW
RIVER
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