A Socio-Economic Evaluation of Woodland Caribou in Northwestern Saskatchewan

M. Tanguay¹, W. Adamowicz², P. Boxall³, W. Phillips⁴, and W. White⁵ Project Report 93-04

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INTRODUCTION

Maintaining the abundance of wildlife and the preservation of endangered species are serious concerns to the people of Saskatchewan. In the 1991 survey "Importance of Wildlife to Canadians" over 80% of Saskatchewan respondents stated that these two issues are important. This same survey also found that over 40 000 Saskatchewan residents were involved in maintaining natural areas. Clearly, wildlife and natural areas preservation are important to the citizens in this province.

A particular forest species, the woodland caribou, is classified as vulnerable to the effects of timber harvesting. In the Northwestern region of Saskatchewan increased forest industry activity could place local populations of this species in jeopardy. Given the degree of public interest in maintaining wildlife populations, a study was proposed to examine the socio-economic significance of this species. For completeness, this proposed study would include the cost of maintaining caribou numbers.

Such a study was initiated in 1992. A survey was developed to collect information on the social and economic elements that would influence the valuation of wildlife. Contingent valuation (CV) methods were incorporated, into the survey, to estimate the value of woodland caribou. The opportunity cost of maintaining caribou numbers will be derived by determining foregone harvest volumes to industry. These cost estimates will be completed in 1993.

will provide the reader with the descriptive of these results.

Attitudes and Opinions about Wilderness and Woodland Caribou

Question 1.1 and 1.2 provide information on the amount of wildlife or outdoor educational and entertainment activities the respondents participated in within their homes or educational facilities. Approximately 80% read material related to wildlife or outdoor activities with 78.7 and 80 percent for Region 1 and Region 2, respectively. Over 90% of all respondents answered yes to the question "did you watch T.V. or movies related to wildlife and outdoor activities?". The actual breakdown was 91.8% for Region 1 and 92.8% for Region 2. These numbers clearly indicate that the level of interest for wildlife and outdoor activities is very high.

Question two was composed of 4 parts, 2.1, 2.2, 2.3 and 2.4. Question 2.1 asked the respondents whether they had hunted or fished in the last year, the average value was over 50%. By sample, Region 2 had a greater proportion of respondents (58% vs. 50.1%) who had hunted or fished in the last year. The lower percentage for Region 1 could be a reflection of the higher urbanization of the respondents within the sample. Question 2.2 asked respondents if they had been involved in other wildlife activities, which would include non-consumptive uses like watching or photographing wildlife. The two samples were similar in responses with Region 1 and Region 2 reporting 56.1% and 58.5%, respectively. A high percentage of the respondents from both regions reported doing outdoor sports related activities (question 2.3). The percentage breakdown by sample is 67.7% for Region 1 and

71.1% for Region 2. The last question of this set, 2.4, enquired about the number of days the individuals participated in any of the above activities. The average number of days for Region 1 and Region 2 were 67.7 and 71.1, respectively. In general, Region 2 appeared more actively involved in outdoor pursuits than Region 1. This attribute of Region 2 could be related to the availability of wilderness areas to the respondents.

The proactive role of the respondents to wilderness related issues was captured in question 3.1. This question asked respondents if they were involved in any wilderness or conservation type clubs. The responses were low, with 14.2% for Region 1 and 16.1% for Region 2. The average number of days each participant spent doing club activities was 8.9 days and 7.7 days for Region 1 and Region 2, respectively. The median values were 2 days for Region 1 and 4 days for Region 2. The average amount of monies the respondents spent per year on club memberships, related activities, or donations, was \$ 81.69 for the Region 2 and \$ 80.41 for Region 1. The median amounts for Region 1 and Region 2 were \$35 and \$39, respectively.

Question 4.1 through to 4.6 dealt with respondent attitudes to wildlife and nature in general. The questions were ordinal in design with 4 representing strongly agreeing with a presented statement and 1 strongly disagreeing. A zero value was given for no opinion responses. Question 4.6 showed the strongest opinion. In both Regions, over 78% of respondents strongly agreed with the statement "people have a moral obligation in preserving the environment". For both regions, the next highest percent (78%) was for the use value wilderness provides for humans (question 4.1). In question 4.2 only 67% of the respondents from both samples strongly agreed with the statement "wildlife that has no

direct benefits to people should be preserved and protected". Approximately 30% of all respondents strongly agreed that some protection should be provided for harmful wildlife. Region 2 was slightly lower than Region 1 (28.7% vs. 30.7%). Nearly 70% of Region 1 respondents disagreed or strongly disagreed with the statement "Species of wildlife that can damage property or harm people should not be protected ...". This compares with 51% for Region 2. Most respondents believed inaction in the preservation of wildlife was wrong. Seventy-five percent, of all respondents, strongly disagreed with the statement " preserving wildlife for the future is not important as the future will take care of itself ...". Regionally, this breaks down to 74.2 and 75.6 percentage for Region 2 and Region 1, respectively. Question 4.4 provided the most ambiguous responses. Nearly 60% of all respondents chose either "agree" or "disagree" to the statement "Wildlife is important but peoples needs should come first ...". A break down by sample showed that Region 1 had 64% in these two categories and Region 2 approximately 59%.

Question 5 through 9 dealt exclusively with the respondents' attitudes, knowledge and opinions concerning woodland caribou. The survey revealed that over 80% of all respondents had heard of woodland caribou before receiving the questionnaire, with Region 2 being only slightly more aware of caribou (81.1% vs. 80.9%) than Region 1. Question 6 asked the question "have you ever seen a woodland caribou in the wild?". Over 60% of all respondents said no. In Region 2, just slightly over 30% had seen a caribou a few times (1 to 5 times) verses 26.1% for Region 1. The importance of the existence of woodland caribou was reported to be important to very important to over 80% of respondents in both samples. Question 8 was composed of 8 sub-questions on the reasons why individuals felt woodland

caribou are important. Most respondents identified several reasons concerning the importance of caribou. Question 9 was included so respondents would identify the reason that was the most important from question 8. The reason identified most often, over 35% for both samples, was that caribou simply had a right to exist. A distant second was that caribou are important to maintain the balance of nature. All other reasons were less than 10% for both samples. The least chosen reason for Region 1 was "a chance to see a caribou" (1.4%) and for Region 2, "an opportunity to hunt caribou" (2.5%).

Contingent Valuation Question

The CV questions 10 and 11 were composed in several different frameworks. Because of the more complex nature of the DC WTP questions they are not discussed in this report, but will be analyzed at a later date.

The OE WTP questions were evaluated by sample region within the different frameworks described earlier. The means and medians were calculated for each question. The average mean, over all regions, for the Canadian question was \$17.06 and the Saskatchewan question was \$20.26. These two values showed a high variance. The fact the means are positive indicates that certain segments of the population do place a value on maintaining caribou. An effort will be made to determine who benefits from the preservation of caribou. The results of this analysis will be contained within the final report.

The final report will also include the results from the DC WTP questions. Because DC WTP questions are considered more reliable than OE WTP questions, they may yield different results.

Demographics

For both regions sampled, the majority of the respondents were male (approximately 74.5% for each region). The average age for each region varied slightly with Region 2 being older (47.46 years) than Region 1 (45.08 years). The median ages were 45 and 42 years, respectively. Question 14/15 enquired whether the respondents had ever visited Northwestern Saskatchewan. A map was provided showing the region. For Region 2, 81% answered yes, compared to 70% for Region 1. The difference between the two samples is not surprising since Region 2 was almost identical to the included map. A question asking the name of the closest town to the respondent's residence was included as was a question concerning the size of the respondents present place of residence. Region 1 was shown to be mostly urban in nature with over 67% of the respondents living in towns greater than one thousand people. Region 2 was evenly distributed between urban and rural (live on a farm) residences. Both urban and rural residences were identified at 35.7% of the Region 1 sample. The number of individuals who reside in a household, for both regions, was 2.8 people/household, with the median being 2 for both samples. In both samples the median value for income was 4, which translates to an income range of between 30 and 40 thousand dollars per year. Question 19/20 elicited the highest year of education completed. Region 1 showed a higher average education (12.5 years vs. 11.6 years), however both regions had a median of 12 years. The occupation of the respondents was elicited in question 20/21. For both samples approximately 1/5 of respondents identified themselves as retired (17.2% for Region 1 and 19.6% for Region 2). Region 2 reflected its more rural nature by having a higher percentage of the respondents reporting their occupation as farmers (22.7% vs. 14.1%). The only other notable difference was the higher number of professional occupations reported in Region 1 relative to Region 2 (19.1% vs. 13.4%).

CONCLUSION

This interim report was prepared to provide the descriptive results of the 1992 Saskatchewan Woodland Caribou Survey. Additional analysis will be required to understand further the data collected from this survey. It is hoped that the data gathered from the survey will provide professional managers and decision makers with relevant information now and in the future.

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Appendix A

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| | | | |
| Section 1. | | | |

QUESTION 1. During the last year have you

1.1 Read books, magazines or articles on wildlife or outdoor activities?

| REGION: 1 | | | | | Valid | Cum |
|--------------------------|------|----------------------|-------------------|---------------------|-------------------------|-----------------|
| Value Label | | Value | Frequency | Percent | | Percent |
| no yes missing | | 0 1 9 | 285 1051 38 | 20.7 76.5 2.8 | 21.3 78.7 Missing | 21.3 100.0 |
| | | Total | 1374 | 100.0 | 100.0 | |
| Valid cases | 1336 | Missing c | ases 38 | | | |
| | | | | | | |
| REGION: 2 | | | | | Valid | C: m |
| REGION: 2 Value Label | | Value | Frequency | Percent | Valid Percent | Cum Percent |
| | | Value 0 1 9 | 132 528 20 | 19.4 77.6 2.9 | | |
| Value Label no yes | | 0 | 132 528 | 19.4 77.6 | 20.0 80.0 | Percent 20.0 |

1.2 Watched films or T.V. on wildlife or outdoor activities?

| REGION: 1 | | | | | Valid | Cum |
|----------------------|------|----------------------|-----------------------|-----------------------------|---------------------------------|--------------|
| Value Label | | Value | Frequency | Percent | | Percent |
| no yes missing | | 0 1 9 Total | 110 1236 28 | 8.0 90.0 2.0 100.0 | 8.2 91.8 Missing 100.0 | 8.2 100.0 |
| Valid cases | 1346 | Missing ca | ases 28 | | | |
| REGION: 2 | | | | | Valid | Cum |
| Value Label | | Value | Frequency | Percent | Percent | Percent |
| no yes missing | | 0 1 9 | 48 623 9 | 7.1 91.6 1.3 | 7.2 92.8 Missing | 7.2 100.0 |
| | | | | | | |
| | | Total | 680 | 100.0 | 100.0 | |

QUESTION 2. During the last year

2.1 Did you hunt or fish?

| REGION 1 | | | | | | |
|----------------------|------|-------------|------------------|---------------------|-------------------------|----------------|
| Value Label | | Value | Frequency | Percent | Valid Percent | Cum Percent |
| no yes missing | | 0 1 9 | 674 676 24 | 49.1 49.2 1.7 | 49.9 50.1 Missing | 49.9 100.0 |
| | | Total | 1374 | 100.0 | 100.0 | |
| Valid cases | 1350 | Missing ca | ases 24 | | | |

| REGION 2 | | | | | | |
|----------------|------------|------------------|-------------|--------------|-----------------|---------|
| | | 14-1 | F | | Valid | Cum |
| Value Label | | value | Frequency | Percent | Percent | Percent |
| no | | 0 | 278 300 | 40.9 57.4 | 41.6 58.4 | 41.6 |
| yes missing | | 1 9 | 390 12 | 57.4 1.8 | 58.4 Missing | 100.0 |
| | | T . A . 1 | | | | |
| | | Total | 680 | 100.0 | 100.0 | |
| Valid cases | 668 | Missing c | ases 12 | ? | | |
| | | | | | | |
| 2.2 Were you | involved i | in other wil | dlife activ | vities? | | |
| • | | | | | | |
| REGION: 1 | | | | | Valid | Cum |
| Value Label | | Value | Frequency | Percent | | Percent |
| no | | 0 | 592 | 43.1 | 43.9 | 43.9 |
| yes | | 1 | 757 25 | 55.1 | 56.1 | 100.0 |
| missing | | 9 | 25 | 1.8 | Missing | |
| | | Total | 1374 | 100.0 | 100.0 | |
| Valid cases | 1349 | Missing c | ases 25 | i | | |
| REGION: 2 | | | | | | |
| REGION: 2 | | | | | Valid | Cum |
| Value Label | | Value | Frequency | Percent | Percent | Percent |
| no | | 0 | 277 | 40.7 | 41.5 | 41.5 |
| yes missing | | 1 9 | 390 13 | 57.4 1.9 | 58.5 | 100.0 |
| iiissiiig | | 7 | | | Missing | |
| | | Total | 680 | 100.0 | 100.0 | |
| Valid cases | 667 | Missing c | ases 13 | 5 | | |
| | | | | | | |
| 2.3 Were you | involved | in other out | door activi | ities? | | |
| | | 51 520 | | | | |
| REGION 1 | | | | | Valid | Cum |
| Value Label | | Value | Frequency | Percent | | |
| no | | 0 | 432 | 31.4 | 32.3 | 32.3 |
| yes | | 1 | 907 | 66.0 | 67.7 | 100.0 |
| missing | | 9 | 35 | 2.5 | Missing | |
| | | Total | 1374 | 100.0 | 100.0 | |
| Valid cases | 1339 | Missing c | ases 35 | 5 | | |
| | | • | | | | |
| REGION 2 | | | | | Valid | Cum |
| Value Label | | Value | Frequency | Percent | Percent | |
| no | | 0 | 188 | 27.6 | 28.3 | 28.3 |
| yes missing | | 1 9 | 477 15 | 70.1 | 71.7 | 100.0 |
| missing | | y | 15 | 2.2 | Missing | |
| | | Total | 680 | 100.0 | 100.0 | |
| Valid cases | 665 | Missing c | ases 15 | 5 | | |
| | | | | | | |

2.4 Please indicate the approximate number of days that you participated in these activities during the last year.

| REGION: | 1 |
|---------|---|
|---------|---|

| Mean Std dev Maxim u m | 26.437 46.994 365.000 | Median Variance | 14.000 2208.391 | Mode Minimum | 10.000 |
|-------------------------------------|-----------------------------|--------------------|--------------------|-----------------|-----------------|
| Valid cases | 1092 | Missing ca | ases 282 | | |
| REGION: 2 | | | | | |
| Mean Std dev Maximum | 36.109 62.124 365.000 | Median Variance | 20.000 3859.415 | Mode Minimum | 10.000 1.000 |
| Valid cases | 558 | Missing ca | ases 122 | | |

QUESTION 3. Are you a member of a wilderness/environmental/outdoor activity club/organization, such as ducks
Unlimited or The Canadian Parks and Wilderness Society?

REGION: 1

| Value Label | | Value | Frequency | Percent | Valid Percent | Cum Percent |
|----------------------|------|-------------|-------------------|---------------------|-------------------------|----------------|
| no yes missing | | 0 1 9 | 1157 191 26 | 84.2 13.9 1.9 | 85.8 14.2 Missing | 85.8 100.0 |
| | | Total | 1374 | 100.0 | 100.0 | |
| Valid cases | 1348 | Missing ca | ises 26 | | | |
| REGION: 2 | | | | | W. 124 | _ |
| Value Label | | Value | Frequency | Percent | Valid Percent | Cum Percent |
| no yes missing | | 0 1 9 | 556 107 17 | 81.8 15.7 2.5 | 83.9 16.1 Missing | 83.9 100.0 |
| | | Total | 680 | 100.0 | 100.0 | |
| Valid cases | 663 | Missing ca | ses 17 | , | | |

QUESTION 3.1 If yes, please indicate approximately how much in total you spent on memberships etc. and about how many days you were involved in club activities.

3.21 Days spent

REGION: 1

| Mean Std dev Maximum | 8.916 21.218 200.000 | Median Variance | 2.000 450.205 | Mode Minimum | .000 |
|----------------------------|----------------------------|--------------------|------------------|-----------------|------|
| Valid cases | 190 | Missing cases | s 1184 | | |
| REGION: 2 | | | | | |
| Mean Std dev Maximum | 7.738 12.719 100.000 | Median Variance | 4.000 161.780 | Mode Minimum | .000 |
| Valid cases | 107 | Missing cases | s 573 | | |

3.22 Dollars spent

REGION: 1

| Mean Std dev Maximum | 80.412 150.818 1000.000 | Median Variance | 35.000 22746.052 | Mode Minimum | 50.000 |
|----------------------------|-------------------------------|--------------------|---------------------|-----------------|--------|
| Valid cases | 199 | Missing c | ases 1175 | | |
| REGION: 2 | | | | | |
| Mean Std dev Maximum | 81.685 122.257 750.000 | Median Variance | 39.000 14946.722 | Mode Minimum | 50.000 |
| Valid cases | 108 | Missing c | ases 572 | | |

QUESTION 4. Please circle the response that best describes your attitudes towards wildlife and wildlands for each statement below. Note: These attitude questions are scaler design!

4.1 Wildlife is important for people to use and enjoy

REGION: 1

| Value Label | Value | Frequency | Percent | Valid Percent | Cum Percent |
|---------------------------------|-------------|-------------------|---------------------|---------------------|----------------------|
| no opinion strongly disagree | 0 1 | 12 14 | .9 1.0 | .9 1.0 | .9 1.9 |
| strongly agree | 2 3 4 | 26 250 1042 | 1.9 18.2 75.8 | 1.9 18.6 77.5 | 3.9 22.5 100.0 |
| missing | 9 | 30 | 2.2 | Missing | 100.0 |
| | Total | 1374 | 100.0 | 100.0 | |
| Valid cases 1344 | Missing ca | ases 30 | | | |
| REGION: 2 | | | | المائط | 0 |
| Value Label | Value | Frequency | Percent | Valid Percent | Cum Percent |
| no opinion | 0 | 4 | .6 | .6 | .6 |
| strongly disagree | 1 2 | 6 8 | .9 1.2 | .9 1.2 | 1.5 2.7 |
| strongly agree | 3 4 | 129 523 | 19.0 76.9 | 19.3 78.1 | 21.9 100.0 |
| missing | 9 | 10 | 1.5 | Missing | 100.0 |
| | Total | 680 | 100.0 | 100.0 | |
| Valid cases 670 | Missing ca | ases 10 | | | |

4.2 Even wildlife which has no direct benefits to people should be protected and preserved

| REGION 1 | | | | Valid | 6 . — |
|---------------------------------|---------------------|----------------------|--------------------------|--------------------------|---------------------------|
| Value Label | Value | Frequency | Percent | | Cum Percent |
| no opinion strongly disagree | 0 1 2 3 | 17 5 31 380 | 1.2 .4 2.3 27.7 | 1.3 .4 2.3 28.1 | 1.3 1.6 3.9 32.0 |
| strongly agree missing | 4 9 | 919 22 | 66.9 | 68.0 Missing | 100.0 |
| | Total | 1374 | 100.0 | 100.0 | |
| Valid cases 1352 | Missing ca | ses 22 | | | |
| REGION 2 | | | | W-124 | 0 |
| Value Label | Value | Frequency | Percent | Valid Percent | Cum Percent |
| no opinion strongly disagree | 0 1 2 3 | 11 2 21 197 | 1.6 .3 3.1 29.0 | 1.6 .3 3.1 29.4 | 1.6 1.9 5.1 34.5 |
| strongly agree missing | 4 9 | 438 11 | 64.4 | 65.5 Missing | 100.0 |
| Valid cases 669 | Total Missing ca | 680 ases 11 | 100.0 | 100.0 | |

4.3 Species of wildlife that can damage property or harm people should not be protected \dots

| | | | | Valid | Cum |
|---|-----------------------|-------------------------------|------------------------------------|------------------------------------|-----------------------------|
| Value Label | Value | Frequency | Percent | | Percent |
| no opinion | 0 | 40 | 2.9 | 3.0 | 3.0 |
| strongly disagree | 1 | 411 | 29.9 | 30.7 | 33.7 |
| | 2 | 527 | 38.4 | 39.3 | 73.0 |
| | 3 | 256 | 18.6 | 19.1 | 92.1 |
| strongly agree | 4 | 106 | 7.7 | 7.9 | 100.0 |
| missing | 9 | 34 | 2.5 | Missing | |
| | Total | 1374 | 100.0 | 100.0 | |
| Valid cases 1340 | Missing c | ases 34 | | | |
| REGION: 2 | | | | Valid | Cum |
| | | | | | |
| Value Label | Value | Frequency | Percent | | |
| | Value 0 | Frequency 23 | Percent 3.4 | | |
| Nalue Label no opinion strongly disagree | 0 | • | | Percent | Percent |
| no opinion | 0 1 2 | 23 186 225 | 3.4 | Percent 3.5 | Percent |
| no opinion | 0 1 2 3 | 23 186 225 166 | 3.4 27.4 33.1 24.4 | 3.5 28.1 33.9 25.0 | 3.5 31.5 65.5 90.5 |
| no opinion strongly disagree strongly agree | 0 1 2 3 4 | 23 186 225 166 63 | 3.4 27.4 33.1 24.4 9.3 | 3.5 28.1 33.9 25.0 9.5 | 3.5 31.5 65.5 |
| no opinion strongly disagree | 0 1 2 3 | 23 186 225 166 | 3.4 27.4 33.1 24.4 | 3.5 28.1 33.9 25.0 | 3.5 31.5 65.5 90.5 |
| no opinion strongly disagree strongly agree | 0 1 2 3 4 | 23 186 225 166 63 | 3.4 27.4 33.1 24.4 9.3 | 3.5 28.1 33.9 25.0 9.5 | 3.5 31.5 65.5 90.5 |

REGION: 1

4.4 Wildlife is important but peoples needs should come first ...

| REGION 1 | | | | 14-15-1 | Cum |
|---------------------------------|----------------------|-------------------------|-----------------------------|----------------------------------|-----------------------------|
| Value Label | Value | Frequency | Percent | Valid Percent | Percent |
| no opinion strongly disagree | 0 1 2 3 | 37 266 375 | 2.7 19.4 27.3 | 2.8 19.9 28.0 | 2.8 22.6 50.7 |
| strongly agree missing | 3 4 9 Total | 481 179 36 | 35.0 13.0 2.6 | 35.9 13.4 Missing 100.0 | 86.6 100.0 |
| Valid cases 1338 | Missing c | | | 100.0 | |
| REGION 2 | | | | | _ |
| Value Label | Value | Frequency | Percent | Valid Percent | Cum Percent |
| no opinion strongly disagree | 0 1 2 3 | 29 114 191 203 | 4.3 16.8 28.1 29.9 | 4.4 17.1 28.7 30.5 | 4.4 21.5 50.2 80.6 |
| strongly agree missing | 4 9 | 129 14 | 19.0 2.1 | 19.4 Missing | 100.0 |
| Valid cases 666 | Total Missing c | 680 ases 14 | 100.0 | 100.0 | |

4.5 Preserving wildlife for the future is not important as the future will take care of itself

| REGION: 1 | | | | 14.15.4 | |
|---|-----------------------|-----------------------------|-----------------------------------|-----------------------------------|--------------------------------------|
| Value Label | Value | Frequency | Percent | Valid Percent | Cum Percent |
| no opinion strongly disagree | 0 1 2 3 | 29 1016 202 59 | 2.1 73.9 14.7 4.3 | 2.2 75.6 15.0 4.4 | 2.2 77.8 92.8 97.2 |
| strongly agree missing | 4 9 Total | 38 30 | 2.8 2.2 | 2.8 Missing 100.0 | 100.0 |
| Valid cases 1344 | Missing c | ases 30 | | | |
| REGION: 2 | | | | | _ |
| Value Label | Value | Frequency | Percent | Valid Percent | Cum Percent |
| no opinion strongly disagree strongly agree | 0 1 2 3 4 | 18 495 99 31 24 | 2.6 72.8 14.6 4.6 3.5 | 2.7 74.2 14.8 4.6 3.6 | 2.7 76.9 91.8 96.4 100.0 |
| missing | 9 | 13 | 1.9 | Missing | 100.0 |
| | Total | 680 | 100.0 | 100.0 | |
| Valid cases 667 | Missing c | ases 13 | | | |

4.6 People have a moral obligation in preserving the environment \dots

| REGION 1 | | | | | |
|---|-----------------------|----------------------------|-----------------------------------|-----------------------------------|---------------------------|
| Value Label | Value | Frequency | Percent | Valid Percent | Cum Percent |
| no opinion strongly disagree | 0 1 2 3 | 19 18 17 236 | 1.4 1.3 1.2 17.2 | 1.4 1.3 1.3 17.5 | 1.4 2.7 4.0 21.5 |
| strongly agree missing | 4 9 | 1061 23 | 77.2 1.7 | 78.5 | 100.0 |
| | Total | 1374 | 100.0 | 100.0 | |
| Valid cases 1351 | Missing c | ases 23 | | | |
| REGION 2 | | | | | |
| | | | | | |
| Value Label | Value | Frequency | Percent | Valid Percent | Cum Percent |
| Value Label no opinion strongly disagree | 0 1 2 | 9 10 8 | 1.3 1.5 1.2 | 1.3 1.5 1.2 | 1.3 2.8 4.0 |
| no opinion | 0 | 9 | 1.3 1.5 | 1.3 1.5 | 1.3 2.8 |
| no opinion strongly disagree strongly agree | 0 1 2 3 4 | 9 10 8 114 527 | 1.3 1.5 1.2 16.8 77.5 | 1.3 1.5 1.2 17.1 78.9 | 1.3 2.8 4.0 21.1 |

 ${\tt QUESTION}$ 5. Have you heard of Woodland Caribou before this survey

| REGION: 1 | | | | | اما خط | c . – |
|----------------------|------|-------------|-------------------|---------------------|-------------------------|----------------|
| Value Label | | Value | Frequency | Percent | Valid Percent | Cum Percent |
| no yes missing | | 0 1 9 | 260 1104 10 | 18.9 80.3 .7 | 19.1 80.9 Missing | 19.1 100.0 |
| | | Total | 1374 | 100.0 | 100.0 | |
| Valid cases | 1364 | Missing c | ases 10 |) | | |
| REGION: 2 | | | | | | |
| Value Label | | Value | Frequency | Percent | Valid Percent | Cum Percent |
| no yes missing | | 0 1 9 | 127 544 9 | 18.7 80.0 1.3 | 18.9 81.1 Missing | 18.9 100.0 |
| | | Total | 680 | 100.0 | 100.0 | |
| Valid cases | 671 | Missing o | ases 9 | • | | |

QUESTION 6. Have you ever seen a Woodland Caribou in the wild?

| REGION 1 | | | | | Valid | Cum |
|--|------|---------------------------|-------------------------|-----------------------------|--------------------------------|-----------------------|
| Value Label | | Value | Frequency | Percent | | Percent |
| never a few times alot of times missing | | 1 2 3 9 Total | 782 302 72 218 | 56.9 22.0 5.2 15.9 | 67.6 26.1 6.2 Missing | 67.6 93.8 100.0 |
| Valid cases | 1156 | Missing c | ases 218 | 3 | | |
| REGION 2 | | | | | Valid | Cum |
| Value Label | | Value | Frequency | Percent | | Percent |
| never a few times alot of times missing | | 1 2 3 9 Total | 361 181 34 104 | 53.1 26.6 5.0 15.3 | 62.7 31.4 5.9 Missing | 62.7 94.1 100.0 |
| Valid cases | 576 | Missing c | ases 104 | • | | |

QUESTION 7. How important/unimportant is it to you that Woodland Caribou exist?

| REGION: 1 | | | | Valid | Cum |
|----------------------|------------|-----------|---------|---------|---------|
| Value Label | Value | Frequency | Percent | | Percent |
| no opinion | 0 | 101 | 7.4 | 7.4 | 7.4 |
| not at all important | 1 | 21 | 1.5 | 1.5 | 9.0 |
| | 2 3 | 136 | 9.9 | 10.0 | 19.0 |
| | 3 | 476 | 34.6 | 35.0 | 53.9 |
| very important | 4 9 | 627 | 45.6 | 46.1 | 100.0 |
| missing | 9 | 13 | .9 | Missing | |
| | | | | | |
| | Total | 1374 | 100.0 | 100.0 | |
| Valid cases 1361 | Missing ca | ses 13 | | | |
| REGION: 2 | | | | | |
| | | | | Valid | Cum |
| Value Label | Value | Frequency | Percent | Percent | Percent |
| no opinion | 0 | 53 | 7.8 | 7.9 | 7.9 |
| not at all important | 1 | 14 | 2.1 | 2.1 | 10.0 |
| · | 2 | 65 | 9.6 | 9.7 | 19.7 |
| | | 228 | 33.5 | 34.0 | 53.7 |
| very important | 4 | 311 | 45.7 | 46.3 | 100.0 |
| missing | 9 | 9 | 1.3 | Missing | |
| | Total | 680 | 100.0 | 100.0 | |
| Valid cases 671 | Missing ca | ses 9 | , | | |

Question 8. Which of the following statements best describe the reasons why Woodland Caribou are important to you?

8.1 I want the chance to see a caribou in the wild.

| REGION: 1 | | | | | الما الما | C . — |
|----------------------|------|-------------|------------------|--------------------|-------------------------|----------------|
| Value Label | | Value | Frequency | Percent | Valid Percent | Cum Percent |
| no yes missing | | 0 1 9 | 716 647 11 | 52.1 47.1 .8 | 52.5 47.5 Missing | 52.5 100.0 |
| | | Total | 1374 | 100.0 | 100.0 | |
| Valid cases | 1363 | Missing c | ases 11 | | | |

| National State Value Frequency Percent Valid Cum Percent St. St. |
|--|
| Value Label Value Frequency Percent Percent Percent Percent no yes missing 1 375 55.1 55.9 100.0 44.1 44.1 55.9 100.0 missing 9 9 1.3 Missing Missing Total 680 100.0 100.0 100.0 Valid cases 671 Missing cases 9 9 8.2 All animals including caribou, have a right to exist. REGION 1 Value Label Value Frequency Percent Percent Percent Percent no 9 224 16.3 16.4 16.4 16.4 16.9 100.0 100.0 yes 1 1139 82.9 83.6 100.0 83.6 100.0 missing 9 11 8 Missing 100.0 100.0 100.0 100.0 Valid cases 1363 Missing cases 11 Valid Cum Percent |
| yes missing 1 375 55.1 55.9 100.0 55.1 55.9 100.0 100.0 Total 680 100.0 100.0 100.0 100.0 Valid cases 671 Missing cases 9 8.2 All animals including caribou, have a right to exist. REGION 1 Value Label Value Frequency Percent Percent Percent No 0 224 16.3 16.4 16.4 16.4 16.4 16.4 16.4 16.4 16.4 |
| Total 680 100.0 100.0 |
| Total 680 100.0 100.0 Valid cases 671 Missing cases 9 8.2 All animals including caribou, have a right to exist. REGION 1 Value Label Value Frequency Percent Percent Percent no 0 224 16.3 16.4 16.4 16.4 16.4 16.4 16.4 16.4 16.4 |
| National Color |
| 8.2 All animals including caribou, have a right to exist. REGION 1 Value Label |
| Value Label Value Frequency Percent Percent Percent |
| Value Label Value Frequency Percent Percent Percent Cum Percent Percent no yes 1 1139 82.9 83.6 100.0 83.6 100.0 missing 9 11 8 Missing 8 Missing Total 1374 100.0 100.0 100.0 Valid cases 1363 Missing cases 11 REGION 2 Value Frequency Percent Percent Percent Percent Percent No 124 18.2 18.5 18.5 100.0 18.5 18.5 100.0 yes 1 547 80.4 81.5 100.0 missing 9 9 1.3 Missing Total 680 100.0 100.0 100.0 Valid cases 671 Missing cases 9 9 8.3 Woodland Caribou should be preserved for future generations. Valid Cum |
| Value Label Value Frequency Percent Percent Percent Cum Percent Percent no yes 1 1139 82.9 83.6 100.0 83.6 100.0 missing 9 11 8 Missing 8 Missing Total 1374 100.0 100.0 100.0 Valid cases 1363 Missing cases 11 REGION 2 Value Frequency Percent Percent Percent Percent Percent No 124 18.2 18.5 18.5 100.0 18.5 18.5 100.0 yes 1 547 80.4 81.5 100.0 missing 9 9 1.3 Missing Total 680 100.0 100.0 100.0 Valid cases 671 Missing cases 9 9 8.3 Woodland Caribou should be preserved for future generations. Valid Cum |
| no |
| 1 |
| Total 1374 100.0 100.0 |
| Total 1374 100.0 100.0 Valid cases 1363 Missing cases 11 REGION 2 Value Label Value Frequency Percent Percent Percent no 0 124 18.2 18.5 18.5 18.5 18.5 18.5 18.5 18.5 18.5 |
| Valid cases 1363 Missing cases 11 REGION 2 Value Frequency Percent Valid Cum Percent No 0 124 18.2 18.5 18.5 yes 1 547 80.4 81.5 100.0 missing 9 9 1.3 Missing Total 680 100.0 100.0 Valid cases 671 Missing cases 9 8.3 Woodland Caribou should be preserved for future generations. REGION: 1 Valid Cum |
| Value Label Value Frequency Percent Percent Percent |
| Value Label Value Frequency Percent Percent Valid Percent Percent no 0 124 18.2 18.5 18.5 yes 1 547 80.4 81.5 100.0 missing 9 9 1.3 Missing Total 680 100.0 100.0 Valid cases 671 Missing cases 9 8.3 Woodland Caribou should be preserved for future generations. REGION: 1 Valid Cum |
| Value Label Value Frequency Percent Percent Percent no 0 124 18.2 18.5 18.5 yes 1 547 80.4 81.5 100.0 missing 9 9 1.3 Missing Total 680 100.0 100.0 Valid cases 671 Missing cases 9 8.3 Woodland Caribou should be preserved for future generations. REGION: 1 Valid Cum |
| no 0 124 18.2 18.5 18.5 yes 1 547 80.4 81.5 100.0 missing 9 9 1.3 Missing Total 680 100.0 100.0 Valid cases 671 Missing cases 9 |
| yes |
| Total 680 100.0 100.0 Valid cases 671 Missing cases 9 8.3 Woodland Caribou should be preserved for future generations. REGION: 1 Valid Cum |
| Valid cases 671 Missing cases 9 8.3 Woodland Caribou should be preserved for future generations. REGION: 1 Valid Cum |
| Valid cases 671 Missing cases 9 8.3 Woodland Caribou should be preserved for future generations. REGION: 1 Valid Cum |
| 8.3 Woodland Caribou should be preserved for future generations. REGION: 1 Valid Cum |
| REGION: 1 Valid Cum |
| REGION: 1 Valid Cum |
| Valid Cum |
| |
| value Labet value riequency Percent Percent |
| |
| no 0 363 26.4 26.6 26.6 yes 1 1000 72.8 73.4 100.0 |
| yes 1 1000 72.8 73.4 100.0 missing 9 11 .8 Missing |
| Total 1374 100.0 100.0 |
| Valid cases 1363 Missing cases 11 |
| |
| REGION: 2 |
| REGION: 2 Valid Cum Value Label Value Frequency Percent Percent |
| Valid Cum |
| Value Label Value Frequency Percent Valid Percent Cum Percent no 0 174 25.6 25.9 25.9 yes 1 497 73.1 74.1 100.0 |
| Value Label Value Frequency Percent Valid Percent Cum Percent no 0 174 25.6 25.9 25.9 yes 1 497 73.1 74.1 100.0 missing 9 9 1.3 Missing |
| Value Label Value Frequency Percent Percent Percent no 0 174 25.6 25.9 25.9 yes 1 497 73.1 74.1 100.0 |

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Walter Agentument of

Sometime of the second

tuganamanik

Water transmitted

Was a second

Management of the second

in the second

September of the septem

terminate and state of

8.4 I feel Woodland Caribou are an indicator of environmental quality.

| REGION 1 | | | | | Valid | Cum |
|-------------------------|------|-------------------------------|----------------------|-----------------------------|-------------------------|----------------|
| Value Label | | Value | Frequency | Percent | | Percent |
| no yes missing | | 0 1 9 Total | 801 562 11 | 58.3 40.9 .8 100.0 | 58.8 41.2 Missing | 58.8 100.0 |
| Valid cases | 1363 | Missing ca | ses 11 | | | |
| | | | | | | |
| REGION 2 | | | | | Valid | C m |
| REGION 2 Value Label | | Value | Frequency | Percent | Valid Percent | Cum Percent |
| | | Value 0 1 9 Total | 358 313 9 | 52.6 46.0 1.3 | | - C |

8.5 There should be opportunities for others to view Woodland Caribou

| REGION: 1 | | | | | | |
|----------------------|------|--------------------|------------------|---------------------|-------------------------|----------------|
| Value Label | | Value | Frequency | Percent | Valid Percent | Cum Percent |
| no yes missing | | 0 1 9 | 593 770 11 | 43.2 56.0 .8 | 43.5 56.5 Missing | 43.5 100.0 |
| Valid cases | 1363 | Total Missing c | 1374 ases 11 | 100.0 | 100.0 | |
| REGION: 2 | | | | | | |
| Value Label | | Value | Frequency | Percent | Valid Percent | Cum Percent |
| no yes missing | | 0 1 9 | 265 406 9 | 39.0 59.7 1.3 | 39.5 60.5 Missing | 39.5 100.0 |
| | | Total | 680 | 100.0 | 100.0 | |
| Valid cases | 671 | Missing c | ases 9 | | | |

$8.6 \ \mathrm{I}$ feel Woodland Caribou are important for maintaining the balance of nature.

| Value Label | | Value | Frequency | Percent | Valid Percent | Cum Percent |
|----------------------|------|----------------------|---------------------|---------------------|-------------------------|----------------|
| no yes missing | | 0 1 9 | 500 863 11 | 36.4 62.8 .8 | 36.7 63.3 Missing | 36.7 100.0 |
| | | Total | 1374 | 100.0 | 100.0 | |
| Valid cases | 1363 | Missing ca | ses 11 | | | |
| REGION 2 | | | | | | |
| Value Label | | Value | Frequency | Percent | Valid Percent | Cum Percent |
| no yes missing | | 0 1 9 Total | 219 452 9 | 32.2 66.5 1.3 | | 32.6 100.0 |
| Valid cases | 671 | Missing ca | ses 9 | | | |

REGION 1

8.7 Woodland Caribou are a part of our Canadian heritage.

| REGION: 1 | | | | | Valid | Cum |
|----------------------|------|----------------------|----------------------|------------------------|----------------------------------|----------------|
| Value Label | | Value | Frequency | Percent | | Percent |
| no yes missing | | 0 1 9 Total | 593 770 11 | 43.2 56.0 .8 | 43.5 56.5 Missing 100.0 | 43.5 100.0 |
| Valid cases | 1363 | Missing c | ases 11 | | | |
| REGION: 2 | | | | | امانط | C:- |
| Value Label | | Value | Frequency | Percent | Valid Percent | Cum Percent |
| no yes missing | | 0 1 9 | 253 418 9 | 37.2 61.5 1.3 | 37.7 62.3 Missing | 37.7 100.0 |
| | | Total | 680 | 100.0 | 100.0 | |
| Valid cases | 671 | Missing c | ases 9 | , | | |

8.8 I feel Woodland Caribou are important for hunting.

| REGION 1 | | | | | | _ |
|----------------------|------|-------------|-------------------|--------------------|-------------------------|----------------|
| Value Label | | Value | Frequency | Percent | Valid Percent | Cum Percent |
| no yes missing | | 0 1 9 | 1006 357 11 | 73.2 26.0 .8 | 73.8 26.2 Missing | 73.8 100.0 |
| | | Total | 1374 | 100.0 | 100.0 | |
| Valid cases | 1363 | Missing ca | ases 11 | | | |
| REGION 2 | | | | | | |
| Value Label | | Value | Frequency | Percent | Valid Percent | Cum Percent |
| no yes | | 0 1 9 | 463 208 9 | 1.3 | 31.0 Missing | 69.0 100.0 |
| | | Total | 680 | 100.0 | 100.0 | |
| Valid cases | 671 | Missing c | ases 9 | 1 | | |

 ${\tt QUESTION}$ 9. If you chose more than one of the above please identify the response you consider the most important.

REGION: 1

| Value Label | Value | Frequency | Percent | Valid Percent | Cum Percent |
|---|----------------------------|-------------------------------------|-----------------------------------|---|---|
| chance to see have a right to exist preserved for the future indicator of environment opportunities for others maintain the balance | 1 2 3 4 5 6 | 17 516 221 59 49 263 | 1.2 37.6 16.1 4.3 3.6 | 1.4 41.0 17.6 4.7 3.9 20.9 | 1.4 42.3 59.9 64.6 68.5 89.4 |
| part of Canadian heritage important for hunting multiple selection | 7 8 0 9 | 94 40 37 78 | 6.8 2.9 2.7 5.7 | 7.5 3.2 Missing Missing | 96.8 100.0 |

Valid cases 1259 Missing cases 115

QUESTION 10. What is the maximum amount you would be willing to pay annually for ten years into a trust fund run by an independent foundation for this Caribou Maintenance Program?

REGION: 1 AREA1: 2 = Saskatchewan AREA2: 1 = Canada VALUE1 = Value given below for Saskatchewan only (1st order)

 Mean
 21.115
 Median
 .000
 Mode
 .000

 Std dev
 55.780
 Variance
 3111.441
 Minimum
 .000

 Maximum
 500.000

Valid cases 122 Missing cases 10

REGION: 2 AREA1: 2 = Saskatchewan AREA2: 1 = Canada VALUE1 = Value given below for Saskatchewan only (1st order)

 Mean
 19.397
 Median
 .000
 Mode
 .000

 Std dev
 33.721
 Variance
 1137.114
 Minimum
 .000

 Maximum
 120.000

Valid cases 63 Missing cases 2

QUESTION 11. What is the maximum amount you would be willing to pay annually for ten years into a trust fund run by an independent foundation for this Caribou Maintenance Program?

REGION: 1 AREA1: 1 = Canada AREA2: 2 = Saskatchewan VALUE2 = Value given below for Saskatchewan only (2nd order)

 Mean
 11.729
 Median
 .000
 Mode
 .000

 Std dev
 25.864
 Variance
 668.956
 Minimum
 .000

 Maximum
 150.000

Valid cases 133 Missing cases 2

REGION: 2 AREA1: 1 = Canada AREA2: 2 = Saskatchewan VALUE2 = Value given below for Saskatchewan only (2nd order)

 Mean
 14.217
 Median
 .000
 Mode
 .000

 Std dev
 27.534
 Variance
 758.143
 Minimum
 .000

 Maximum
 100.000

Valid cases 69 Missing cases 5

QUESTION 10. What is the maximum amount you would be willing to pay annually for ten years into a trust fund run by an independent foundation for this Caribou Maintenance Program?

REGION: 1 AREA1: 7 = single question given AREA2: 2 = Saskatchewan VALUE2 = Value given below for Saskatchewan only (single question)

 Mean
 13.818
 Median
 .000
 Mode
 .000

 Std dev
 43.672
 Variance
 1907.266
 Minimum
 .000

 Maximum
 360.000

Valid cases 148 Missing cases 7

REGION: 2 AREA1: 7 = single question given AREA2: 2 = Saskatchewan VALUE2 = Value given below for Saskatchewan only (single question)

3

 Mean
 7.938
 Median
 .000
 Mode
 .000

 Std dev
 21.134
 Variance
 446.642
 Minimum
 .000

 Maximum
 100.000

Valid cases 80 Missing cases

Question 12/13. What is your sex?

Valid cases

1348

Missing cases

26

| REGION 1 | | | | | Valid | Cum |
|---------------------------|---------------------|--------------------|---------------|---------------------|------------------|----------------|
| Value Label | | Value | Frequency | Percent | | Percent |
| female | | 0 | 344 | 25.0 | 25.4 | 25.4 |
| male missing | | 1 9 | 1010 20 | 73. 5 1.5 | 74.6 Missing | 100.0 |
| · · | | | | | | |
| | | Total | 1374 | 100.0 | 100.0 | |
| Mean Std dev | .746 .435 | Median Variance | 1.000 .190 | Mode Mini | | 1.000 .000 |
| Maximum | 1.000 | | | | | .000 |
| Valid cases | 1354 | Missing c | ases 20 | | | |
| REGION 2 | | | | | Valid | Cum |
| Value Label | | Value | Frequency | Percent | | |
| female | | 0 | 170 | 25.0 | 25.5 | 25.5 |
| male protest | | 1 8 | 496 1 | 72.9 .1 | 74.5 Missing | 100.0 |
| missing | | 9 | 13 | 1.9 | Missing | |
| | | Total | 680 | 100.0 | 100.0 | |
| Maan | .745 | Median | | Mode | | 1.000 |
| Mean Std dev | .436 | median Variance | 1.000 .190 | Mini | | .000 |
| Maximum | 1.000 | | | | | |
| Valid cases | 666 | Missing c | ases 14 | | | |
| | | | | | | |
| Question 13/ REGION: 1 | 114. How old | d are you? | | | | |
| Mean | 45.083 | Median | 42.000 | Mode | | 30.000 |
| Std dev Maximum | 16.839 93.000 | Variance | 283.539 | Mini | mum | 14.000 |
| | | | | | | |
| Valid cases | 1348 | Missing c | ases 26 | | | |
| REGION: 2 | | | | | | |
| Mean | 47.458 | Median | 45.000 | Mode | : | 36.000 |
| Std dev | 17.271 | Variance | 298.300 | Mini | | 12.000 |
| Maximum | 98.000 | | | | | |
| Valid cases | 657 | Missing c | ases 23 | | | |
| | | | | | | |
| Question 14/ | 15. Have y | ou ever been | to Northwe | stern Sas | katchewar | n? |
| REGION 1 | | | | | | |
| Value Label | | مر الدلا | Frequency | Percent | Valid Percent | Cum Percent |
| | | | | | | |
| No | | 0 1 | 395 057 | 28.7 69.7 | 29.3 70.7 | 29.3 100.0 |
| Yes Missing | | 9 | 953 26 | 69.4 1.9 | 70.7 Missing | 100.0 |
| - | | Total | 1374 | 100.0 | 100.0 | |
| | | | | | | 1 000 |
| Mean Std dev | .707 .455 | Median | 1.000 | Mode | | 1.000 .000 |
| | .4) | Variance | .207 | וחוויין | mum | .000 |
| Maximum | 1.000 | variance | .207 | MIN | mum | .000 |

| REGION 2 | | | | | | |
|---------------------------------|-----------------------|---------------------------|---------------------------|---------------------------|------------------------------------|----------------|
| Value Label | | Value | Frequency | Percent | Valid Percent | Cum Percent |
| No Yes Protest Missing | | 0 1 8 9 Total | 126 536 1 17 | 18.5 78.8 .1 2.5 | 19.0 81.0 Missing Missing | 19.0 100.0 |
| Mean Std de∨ Maximum | .810 .393 1.000 | Median Variance | 1.000 .154 | Mode Mini | : | 1.000 |
| Valid cases | 662 | Missing c | ases 18 | } | | |

Question 15/16. Size of present place of residence.

| | | p. 5555 p. 15 | | | | |
|---|------------------------|----------------------------------|---------------|-----------------------------|--|-----------------------|
| REGION: 1 | | | | | Valid | Cum |
| Value Label | | Value | Frequency | Percent | | |
| Rural, Farm Village (less Urban (more t Missing | | 1 2 3 9 | 185 | 17.9 13.5 66.4 2.2 | 13.8 67.9 | 18.3 32.1 100.0 |
| | | Total | 1374 | 100.0 | 100.0 | |
| Mean Std dev Maximum | 2.496 .785 3.000 | Median Variance | 3.000 .617 | | | 3.000 1.000 |
| Valid cases | 1344 | Missing ca | ses 30 | | | |
| REGION: 2 | | | | | Valid | 0 |
| Value Label | | Value | Frequency | Percent | | |
| Rural, Farm Village (less Urban (more t Protest Missing | | 1 2 3 8 9 | 189 | 27.8 34.7 .1 | 35.7 28.6 35.7 Missing Missing | 64.3 |
| | | Total | 680 | 100.0 | 100.0 | |
| Mean Std dev Maximum * Multiple mo | 3.000 | Median Variance The smalle | .715 | Mode Mini s shown. | | 1.000 1.000 |
| Valid cases | 661 | Missing ca | ses 19 | , | | |

REGION: 1

| | Value | Frequency | Percent | Val Pero | | Cum Percent |
|-------------|----------|---------------|---------|-------------|---------|----------------|
| | vacue | rrequericy | rercent | reit | enc | reiteiit |
| | 1 | 254 | 18.5 | 18 | 3.9 | 18.9 |
| | 2 | 456 | 33.2 | 33 | 3.9 | 52.7 |
| | 3 | 211 | 15.4 | 15 | 5.7 | 68.4 |
| | 4 | 242 | 17.6 | | 3.0 | 86.3 |
| | 5 | 126 | 9.2 | | 7.4 | 95.7 |
| | 6 | 39 | 2.8 | | 2.9 | 98.6 |
| | 7 | 16 | 1.2 | 1 | 1.2 | 99.8 |
| | 8 | 2 | .1 | | .1 | 99.9 |
| | 9 | 1 | .1 | • | .1 | 100.0 |
| | 99 | 27 | 2.0 | Miss | sing | |
| | | Total | 1374 | 100 | 0.0 | 100.0 |
| Mean | 2.797 | Median | 2.000 | Mode | 2.000 | |
| Std dev | 1.457 | Variance | 2.122 | Minimum | 1.000 | |
| Maximum | 9.000 | | | | | |
| Valid cases | 1347 | Missing cases | 27 | | | |
| REGION: 2 | | | | | | |
| | | | | Valid | Cum | |
| | Value | Frequency | Percent | Percent | Percent | |
| | 1 | 124 | 18.2 | 18.8 | 18.8 | |
| | 2 | 223 | 32.8 | 33.8 | 52.7 | |
| | 3 | 109 | 16.0 | 16.5 | 69.2 | |
| | 4 | 104 | 15.3 | 15.8 | 85.0 | |
| | 5 | 62 | 9.1 | 9.4 | 94.4 | |
| | 6 | 28 | 4.1 | 4.2 | 98.6 | |
| | 7 | 7 | 1.0 | 1.1 | 99.7 | |
| | 8 | 2 | .3 | .3 | 100.0 | |
| | 88 99 | 1 20 | .1 | Missing | | |
| | 99 | 20 | 2.9 | Missing | | |
| | | Total | 680 | 100.0 | 100.0 | |
| Mean | 2.816 | Median | 2.000 | Mode | 2.000 | |
| Std dev | 1.491 | Variance | 2.223 | Minimum | 1.000 | |
| Maximum | 8.000 | | | | | |
| Valid cases | 659 | Missing cases | 21 | | | |
| | | | | | | |

Question 18/19. Please check one of the following categories that best represents the TOTAL ANNUAL HOUSEHOLD INCOME from all sources before taxes in 1992.

| REGION: 1 | | | | | | |
|----------------|--------|-------------|----------|---------|----------|--------------|
| | | | | _ | Valid | Cum |
| Value Label | | Value F | requency | Percent | Percent | Percent |
| 0 - 10,000 | | 1 | 130 | 9.5 | 10.4 | 10.4 |
| | 00 | 2 | | | 10.6 | 10.6 |
| 10,001 - 20,00 | | | 197 | 14.3 | 16.1 | 26.7 |
| 20,001 - 30,00 | | 3 | 218 | 15.9 | 17.8 | 44.4 |
| 30,001 - 40,00 | | 3 4 5 | 203 | 14.8 | 16.5 | 61.0 |
| 40,001 - 50,00 | 00 | | 151 | 11.0 | 12.3 | <i>7</i> 3.3 |
| 50,001 - 60,00 | 00 | 6 | 108 | 7.9 | 8.8 | 82.1 |
| 60,001 - 70,00 | 00 | 7 | 78 | 5.7 | 6.4 | 88.4 |
| 70,001 - 80,00 | 00 | 8 | 56 | 4.1 | 4.6 | 93.0 |
| 80,001 - 90,00 | | 9 | 36 | 2.6 | 2.9 | 95.9 |
| 90,001 - 100,0 | | 10 | 13 | .9 | 1.1 | 97.0 |
| over 100,000 | | 11 | 37 | 2.7 | 3.0 | 100.0 |
| 0101 100,000 | | 88 | 3 | .2 | Missing | 100.0 |
| | | 99 | 144 | 10.5 | Missing | |
| | | ,, | 144 | 10.5 | m133111g | |
| | | Total | 1374 | 100.0 | 100.0 | |
| Mean | 4.277 | Median | 4.000 | Mode | ! | 3.000 |
| Std dev | 2.464 | Variance | 6.072 | Mini | mum | 1.000 |
| | 11.000 | | | | | |
| Valid cases | 1227 | Missing cas | ses 147 | | | |

| REGION: 2 | 2 | | | | | _ |
|--|--|---|---|---|---|---|
| Value Labe | el | Value F | requency | Percent | Valid Percent | Cum Percent |
| 0 - 10,000 10,001 - 2 20,001 - 3 30,001 - 4 40,001 - 5 50,001 - 6 60,001 - 6 70,001 - 8 80,001 - 9 90,001 - 6 | 20,000 30,000 40,000 50,000 60,000 70,000 80,000 90,000 | 1 2 3 4 5 6 7 8 9 10 11 88 99 | 87 115 87 118 71 35 29 16 6 7 21 2 | 12.8 16.9 12.8 17.4 10.4 5.1 4.3 2.4 .9 1.0 3.1 .3 | 14.7 19.4 14.7 19.9 12.0 5.9 4.9 2.7 1.0 1.2 3.5 Missing | 14.7 34.1 48.8 68.8 80.7 86.7 91.6 94.3 95.3 96.5 100.0 |
| | | Total | 680 | 100.0 | 100.0 | |
| Mean Std dev Maximum | 3.887 2.427 11.000 | Median Variance | 4.000 5.891 | Mode Mini | | 4.000 1.000 |
| Valid case | es 592 | Missing case | es 88 | | | |
| | | | | | | |

Question 19/20. Please circle the highest number of years of education completed?

| REGI | ON: | 1 |
|------|-----|---|
|------|-----|---|

| Mean Std dev Maximum | 12.532 3.008 21.000 | Median Variance | 12.000 9.047 | Mode Minimum | 12.000 |
|----------------------------|---------------------------|--------------------|-----------------|-----------------|-----------------|
| Valid cases | 1342 | Missing case | es 32 | | |
| REGION: 2 | | | | | |
| Mean Std dev Maximum | 11.578 2.899 21.000 | Median Variance | 12.000 8.406 | Mode Minimum | 12.000 3.000 |
| Valid cases | 657 | Missing case | es 23 | | |

Question 20/21. What is your occupation?

| RF | GI | ON | • | - 1 |
|----|----|----|---|-----|

| REGION: 1 | | | | Valid | Cum |
|---------------------------|--------|-----------|---------|---------|---------|
| Value Label | Value | Frequency | Percent | Percent | Percent |
| professional | | | | | |
| and technical | 1 | 257 | 18.7 | 19.1 | 19.1 |
| managerial | | 75 | 5.5 | 5.6 | 24.7 |
| contractor | 2 3 | 6 | .4 | .4 | 25.1 |
| farming (farmer, rancher) | 4 | 190 | 13.8 | 14.1 | 39.3 |
| tradesman | 5 | 140 | 10.2 | 10.4 | 49.7 |
| transportation | • | 140 | 10.2 | 10.4 | 47.1 |
| and communication | 6 | 66 | 4.8 | 4.9 | 54.6 |
| service occupation | 7 | 111 | 8.1 | 8.3 | 62.8 |
| retail sales | 8 | 7 | .5 | .5 | 63.3 |
| real estate | 9 | 3 | .2 | .2 | 63.6 |
| operative | 10 | 29 | 2.1 | 2.2 | 65.7 |
| armed forces | 11 | 2 | .1 | .1 | 65.9 |
| clerical | 12 | 24 | 1.7 | 1.8 | 67.7 |
| labourers (unskilled) | 13 | 24 | 1.7 | 1.8 | 69.4 |
| homemaker | 14 | 38 | 2.8 | 2.8 | 72.3 |
| student | 15 | 66 | 4.8 | 4.9 | 77.2 |
| retired | 16 | 231 | 16.8 | 17.2 | 94.3 |
| not in labour force | 17 | 25 | 1.8 | 1.9 | 96.2 |
| self-employed | 18 | 30 | 2.2 | 2.2 | 98.4 |
| miscellaneous | 19 | 21 | 1.5 | 1.6 | 100.0 |
| protest | 88 | - 1 | .1 | Missing | |
| did not answer | 99 | 28 | 2.0 | Missing | |
| | ,, | | | | |
| | Total | 1374 | 100.0 | 100.0 | |
| | | | | | |

Valid cases 1345 Missing cases 29

| REGION: 2 | | | | | |
|------------------------------|-------|-----------|---------|---------|---------|
| | | _ | _ | Valid | Cum |
| Value Label | Value | Frequency | Percent | Percent | Percent |
| professional | | | | | |
| and technical | 1 | 88 | 12.9 | 13.4 | 13.4 |
| managerial | 2 | 18 | 2.6 | 2.7 | 16.1 |
| contractor | 3 | 5 | .7 | .8 | 16.9 |
| farming (farmer, rancher) | 4 | 149 | 21.9 | 22.7 | 39.6 |
| tradesman | 5 | 58 | 8.5 | 8.8 | 48.4 |
| transportation | | | | | |
| and communication | 6 | 15 | 2.2 | 2.3 | 50.7 |
| service occupation | 7 | 68 | 10.0 | 10.4 | 61.0 |
| retail sales | 8 | 4 | .6 | .6 | 61.6 |
| real estate | 9 | 1 | .1 | .2 | 61.8 |
| operative | 10 | 17 | 2.5 | 2.6 | 64.4 |
| clerical | 12 | 14 | 2.1 | 2.1 | 66.5 |
| labourers (unskill ed | 13 | 12 | 1.8 | 1.8 | 68.3 |
| homemaker | 14 | 30 | 4.4 | 4.6 | 72.9 |
| student | 15 | 17 | 2.5 | 2.6 | 75.5 |
| retired | 16 | 129 | 19.0 | 19.6 | 95.1 |
| not in labour force | 17 | 8 | 1.2 | 1.2 | 96.3 |
| self-employed | 18 | 16 | 2.4 | 2.4 | 98.8 |
| miscellaneous | 19 | 8 | 1.2 | 1.2 | 100.0 |
| protest | 88 | 1 | .1 | Missing | |
| missing | 99 | 22 | 3.2 | Missing | |
| | | | | | |
| | Total | 680 | 100.0 | 100.0 | |

23

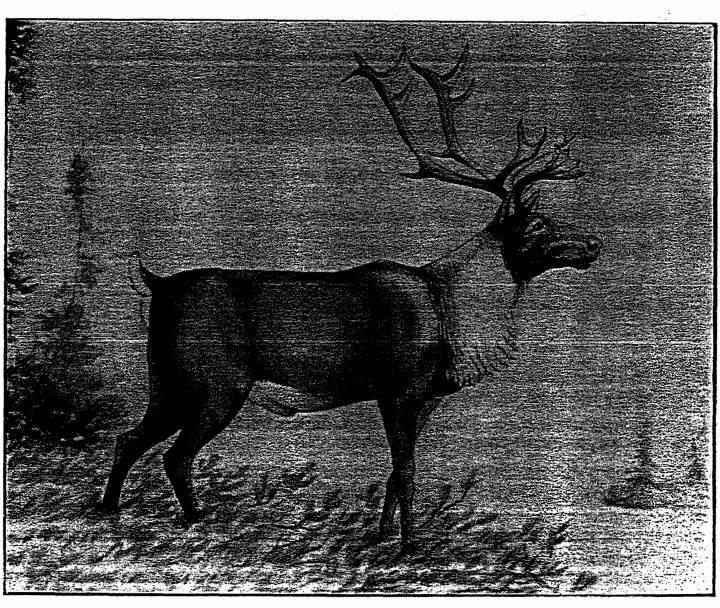
Valid cases 657 Missing cases

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Saskatchewan Woodland Caribou Survey







Saskatchewan Woodland Caribou Survey

You have been chosen to participate in a survey to determine the importance of Woodland Caribou to the people of Saskatchewan. It is important that you take the time to complete the questionnaire and return it as soon as possible. The information collected can then be used to better manage one of our natural resources.

This first section asks about your interest/participation in outdoor recreation activities (canoeing, hiking, fishing, wildlife watching, etc)

| 1. During the last year [from (1/Jan./92) to (15/Nov./92)] have you (please 🗹 |) | | | |
|---|--------|-------------|--------|---------|
| Read books, magazines or articles on wildlife or outdoor activities? | | Yes | | No |
| Watched films or T.V. on wildlife or outdoor activities? | | Yes | | No |
| 2. During the last year [from (1/Jan./92) to (15/Nov./92)] (please 1/2) | | | , | |
| Did you hunt or fish? | | Yes | | No |
| Were you involved in other wildlife activities (some examples are: viewing, feeding, attracting or photographing wildlife)? | | Yes | | No |
| Were you involved in other outdoor activities (some examples are: canoeing, cross country skiing, hiking or camping)? | | Yes | | No |
| If you answered yes, to any of the above in Question 2, please state the ap of days that you participated in these activities during the last year. | • | | total | number |
| | _ day | /S | | |
| 3. Are you a member of a wilderness/environmental/outdoor activity club/orga Unlimited or The Canadian Parks and Wilderness Society? (please), | nizati | ion, su | ch as | s Ducks |
| | | Yes. | | No |
| If yes , please indicate approximately how much in total you spent on members many days you were involved in club activities. | hips | etc. an | id abo | out how |
| \$ spent on mem days active in | | | | ons |
| · · · · · · · · · · · · · · · · · · · | 4 | | | |
| | 27 | 深。 * | 7 | T |

Please <u>circle</u> the response that best describes your attitudes towards wildlife and wildlands for each statement below.

4.

| -7- | | | | | |
|--|-------------------|---------------------|------------------------|----------------------|---------------|
| | Strongly Agree | Moderately Agree | Moderately Disagree | Strongly Disagree | No Opinion |
| Wildlife is important for people to use and enjoy | 4 | 3 | 2 | 1 | N |
| Even wildlife which has no direct benefits to people should be protected and preserved | 4 | 3 | 2 | 1 | N |
| Species of wildlife that can damage property or harm people should not be protected | 4 | 3 | 2 | 1 | N |
| Wildlife is important but people's needs should come first | 4 | 3 | 2 | 1 | N |
| Preserving wildlife for the future is not important as the future will take care of itself | 4 | 3 | 2 | 1 | N |
| People have a moral obligation in preserving the environment | 4 | 3 | 2 | 1 | N |
| | | | | | |



The following questions ask for your opinions about Woodland Caribou. The Woodland Caribou is a member of the deer family which lives in mature forest and muskeg areas in the Northern Canadian Evergreen forest zones. Both the male and female grow antlers, with the female's antlers being smaller in size. The caribou of the woodlands do not travel great distances like their cousins in the north, the Barren-Ground Caribou. As a result, this species has been shown to be sensitive to logging and associated activities.



Figure 1. Male (Left) and Female (Right) Woodland Caribou

| 5. Have you near | of woodland | Caribou befor | e this survey? (pi | ease M) |
|---------------------------------------|---------------|---------------|--------------------|---------------------------|
| | | ☐ Yes ☐ | | |
| | If you a | answered No p | olease go to Que | stion 7 |
| 6. Have you ever | seen a Woodla | nd Caribou in | the wild? (please | · ET) |
| | ☐ A few time | s (1-5 times) | ☐ A lot of time | es (more than five times) |
| 7. How important/ (please circle a | • | - | Woodland Caribou | exist? |
| Very Importan | t | No | ot at all Importan | No Opinion |
| 4 | 3 | 2 | 1 | N |
| | | | | |

| | | he following statements best describe the reasons why Woodland Caribou are important ease check the appropriate box(es))? |
|----|---------|--|
| a) | | I want the chance to see a caribou in the wild. |
| b) | | All animals including caribou, have a right to exist. |
| c) | | Woodland Caribou should be preserved for future generations. |
| d) | | I feel Woodland Caribou are an indicator of environmental quality. |
| e) | | There should be opportunities for others (family, friends, etc) to view Woodland Caribou. |
| f) | | I feel Woodland Caribou are important for maintaining the balance of nature. |
| g) | | Woodland Caribou are a part of our Canadian heritage. |
| h) | | I feel Woodland Caribou are important for hunting. |
| • | | se more than one of the above please identify the response you consider most (Place letter from above responses in blank provided) |
| M | ost Imp | ortant |

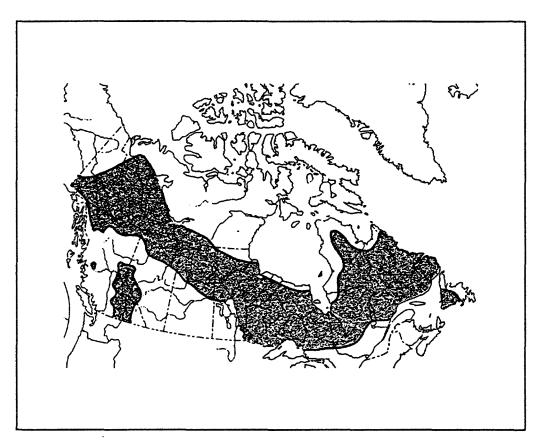
The Preservation of Woodland Caribou.

Woodland Caribou live in mature forest and treed muskeg regions. Mature forests are considered areas in which the forest has reached a state of slower tree growth and a closed canopy. Treed muskegs are wet areas that have moss ground cover and small scattered black spruce and tamarack. Since world demand for forest products is increasing, areas that were once not considered for logging are now being cut. The result of this action is a changing forest (a greater amount of younger trees) and increasing access to remote areas. The logging of these forests allows for the stability of consumer prices for paper and wood based products. An additional benefit from logging is the creation of jobs in small remote communities in Canada's more northern regions.

A consequence of these changes from logging, has been a gradual decline of Woodland Caribou populations in localized areas due to increased hunting (from man and wolves) and to a lesser extent loss of habitat. Therefore the removal of the forest in remote areas may not hurt the Woodland Caribou directly, but the associated actions and outcome of logging does have an impact on them. Some of these effects may be offset through the development of regulations to retain critical habitat and limit access.



The following is a <u>hypothetical</u> situation and is not being considered as part of any government policy

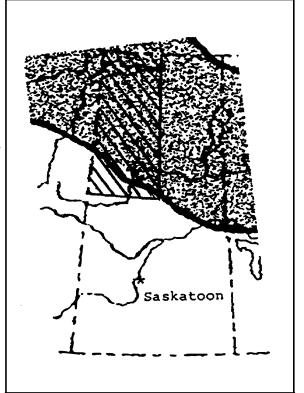


Present Range of Woodland Caribou in Canada

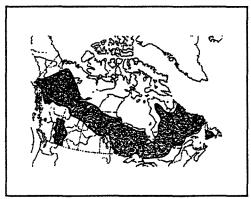
The above map shows the present range of Woodland Caribou (shaded region) in Canada. It is estimated that within this area there is a population of 700,000 Caribou and that this species is not considered threatened. Across this same broad region logging, mining and recreational activities are occurring. Research has shown that in areas where logging or human activity occurs the local Woodland Caribou population disappears due to increased hunting by people and wolves, habitat loss and animals leaving the area.

10. It is possible that by the year 2002 there will be 350,000 Woodland Caribou in Canada. A Woodland Caribou Maintenance program could be developed and implemented to ensure that Caribou maintain their current numbers at approximately 700,000 and their range within Canada. What is the maximum amount you would be willing to pay annually for ten years into a trust fund run by an independent foundation for this Caribou Maintenance Program? (fill in amount) \$

The following is a <u>hypothetical</u> situation and is not being considered as part of any government policy.



Northwestern Region of Saskatchewan (Cross Hatch) and Woodland Caribou Range (Shaded)



Present Range of Woodland Caribou in Canada

The above map shows the present range of Woodland Caribou (shaded region) in Northern Saskatchewan. The cross hatch zone is the Northwestern region of Saskatchewan. It is estimated that 3,600 Woodland Caribou live in this area. Across this same broad region logging activities are expected to increase in the near future. Research has shown that in areas where logging activity occurs the local Woodland Caribou population disappears due to increased hunting from people and wolves, habitat loss and animals leaving the region.

11. It is possible that by the year 2002 there will be 1,800 Woodland Caribou in Northwestern Saskatchewan. A Woodland Caribou Maintenance program could be developed and implemented to ensure that Caribou maintain their current numbers at approximately 3,600 and their range within Northwestern Saskatchewan. What is the maximum amount you would be willing to pay annually for the next ten years into a trust fund run by an independent foundation for this Caribou Maintenance Program? (fill in amount) \$

If you wish you may go back to the previous question page and change the value that you gave.

| | e not willing to pay anyt doing so: (please 🗹 | | (zero) for either of the pre one) | eviou | s two questions, | please give your |
|----------------|--|---------|---|------------|---------------------|------------------------------|
| | I do not receive any b | enefi | ts from Woodland Caribo | ou. | | |
| | I am not interested in Caribou. | spen | ding my money on the p | orese | rvation of Woodl | and |
| | I do not think Woodla | nd Ca | aribou should get in the | way | of the forestry inc | dustry. |
| | Other (please specify) |) | | | | • |
| • • | | | | | | |
| | | | | -t | | . , : |
| necessar | y because they help u to these questions wi | s un | ions about your househ derstand how people fe kept in absolute confid | el ab | out these issues | s. Your |
| • | our sex? (please ☑) are you? years | | iale □ Female □ | | | Saskatoon |
| 15. Have you | ever been to Northwes | stern | Saskatchewan? (please | T) | | |
| | : | Y | es 🗌 No 🗆 | | ; | Map showing |
| 16. Size of pr | esent place of residence | ce? (p | please 🗹) | | | Northwestern Saskatchewan |
| ☐ Rura | il, Farm 🔲 Village (| (less | than 1000) 🔲 Urban | (mo | re than 1000) | |
| 17. What is ye | our place of residence | (nam | e of nearest city or town |) | : | |
| 18. Number o | of individuals who resid | le in y | our household (Including | g you | rself)? | |
| | eck one of the following rom all sources before | | gories that best represents in 1992? (please 🗹) | ts the | TOTAL ANNUA | L HOUSEHOLD |
| □ \$0 | - \$10,000 | | \$10,001 - \$20,000 | | \$20,001 - \$30,0 | 000 |
| □ \$ 30 |),001 - \$40,000 | | \$40,001 - \$50,000 | | \$50,001 - \$60,0 | 000 |
| □ \$ 60 | 0,001 - \$70,000 | | \$70,001 - \$80,000 | | \$80,001 - \$90,0 | 000 |
| □ \$90 |),001 - \$100,000 | | Over \$100,000 | | | |

- 20. Please circle the highest number of years of education completed.
- Elementary School 1 2 3 4 5 6 7 8
- High School 9 10 11 12
- University/Technical School 13 14 15 16
- Post-Graduate 17 18 19 20 20+

| 21. What is your occ | upation? |
|----------------------|----------|
|----------------------|----------|

22. If you have any concerns or opinions you would like to share concerning the questionnaire or wilderness preservation, please use the space below.



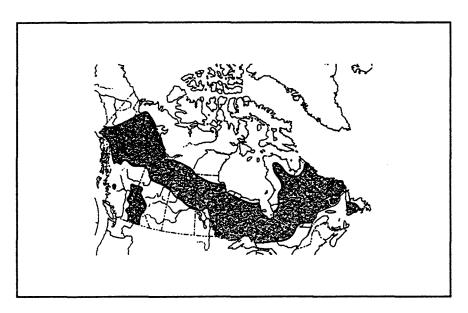
If you have questions about this survey please call Mark Tanguay at:

1 - 800 - 267 - 6413 (Toll Free)

THANK YOU FOR TAKING THE TIME TO PARTICIPATE IN THIS SURVEY

Please remember to return your completed questionnaire in the self-addressed stamped envelope to:

DEPARTMENT OF RURAL ECONOMY MATERIALS MANAGEMENT BLDG UNIVERSITY OF ALBERTA EDMONTON AB T6G 9Z9 The following is a <u>hypothetical</u> situation and is not being considered as part of any government policy.



Present Range of Woodland Caribou in Canada

The above map shows the present range of Woodland Caribou within Canada (shaded area). It is estimated that the Canadian Woodland Caribou population is approximately 700,000 and is not considered a threatened species. This region also represents areas in which logging, mining and recreational activities are taking place or are being considered.

Suppose you have a choice between two options, given below. The action described will be carried out for the option that receives the majority of votes.

11. Option A, Have No Maintenance Program to preserve Woodland Caribou. Local populations will disappear within 10 years of logging and mining activities due to increased hunting from people and wolves, habitat loss and animals leaving the area. The end result is that Woodland Caribou populations will decrease to 350,000 in Canada by the year 2002.

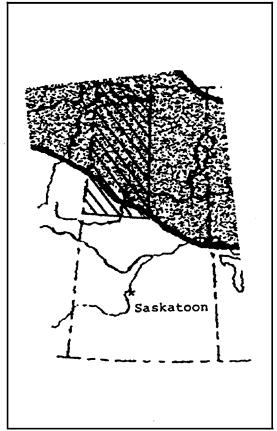
Option B, Have every household in Canada pay \$\frac{88}{88}\$ per year into a trust fund over the next ten years to be spent on a Caribou Maintenance Program. This maintenance program will be run by an independent foundation and will maintain the current range and numbers of approximately 700,000 Woodland Caribou within Canada.

If you could vote for either Option A or B which one would you choose? (please

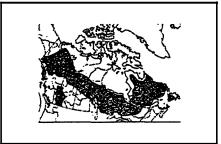
□ Option A □ Option B

If you wish you may go back to the previous question and change your vote.

The following is a <u>hypothetical</u> situation and is not being considered as part of any government policy.



Northwestern Region of Saskatchewan (Cross Hatch) and Woodland Caribou Range



Present Range of Woodland Caribou in Canada

To the left is a map that shows the present range of Woodland Caribou within Northern Saskatchewan (shaded area). The cross hatch area is the Northwestern region of Saskatchewan. It is estimated that 3,600 Woodland Caribou live in this area. This region is also an area where logging activity is expected to increase in the coming years.

Suppose you have a choice between two options, given below. The action described will be carried out for the option that receives the majority of votes.

10. Option A, Have No Maintenance Program to preserve Woodland Caribou. Local populations will disappear within 10 years of logging activities due to increased hunting from people and wolves, habitat loss and animals leaving the area. The end result is that Woodland Caribou populations will decrease to 1,800 in Northwestern Saskatchewan by the year 2002.

Option B, Have every household in Saskatchewan pay \$ 29 per year for the next ten years into a trust fund to be spent on a Caribou Maintenance Program. This maintenance program will be run by an independent foundation and will maintain the current range and numbers of approximately 3,600 Woodland Caribou within Northwestern Saskatchewan.

Given the opportunity to vote for Option A or B which one would you choose? (please 🗹)

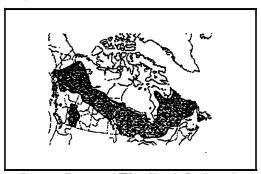
□ Option A □ Option B

The following is a hypothetical situation and is not being considered as part of any government policy.

To the left is a map of the present range of Woodland Caribou within Northern Saskatchewan (shaded area). The cross hatch area is the Northwestern region of Saskatchewan where logging activity is expected to increase in the coming years.



Northwestern Region of Saskatchewan (Cross Hatch) and Woodland Caribou Range (Shaded) in Saskatchewan



Present Range of Woodland Caribou in Canada

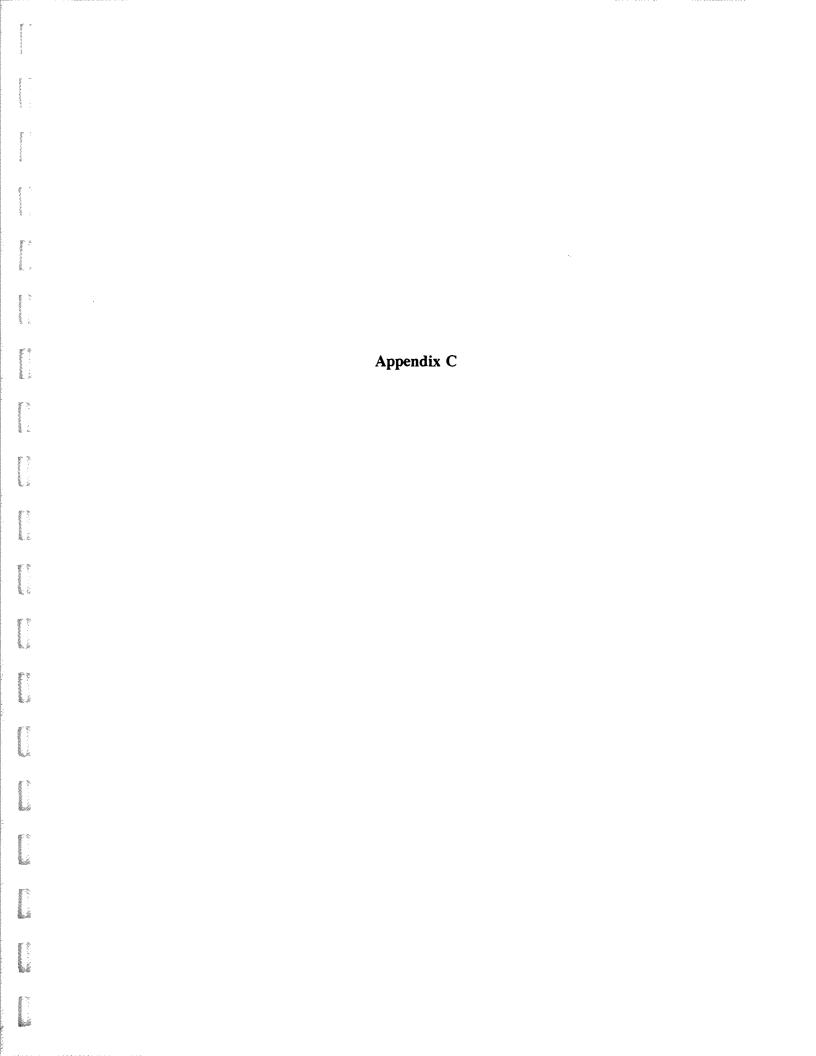
It is estimated that Woodland Caribou numbers are currently 3,600 in Northwestern Saskatchewan. If these are to be preserved, new logging regulations will have to be enforced by government. This could result in you paying higher prices for paper products such as newspapers and toilet paper. In Saskatchewan we estimate the average household spent \$427.10 last year on paper products. This compares with about \$3,690.00 spent on food.

Suppose you have a choice between two options, given below. The action described will be carried out for the option that receives the majority of votes.

10. Option A, You will continue to pay 427.10 per year for print and paper products. No New Regulations to preserve Woodland Caribou will be developed for Northwestern Saskatchewan. Some local populations of Woodland Caribou will disappear within 10 years of logging due to increased hunting by people and wolves and some Woodland Caribou leaving the logged areas. The end result is that there will be 1,800 Caribou in Northwestern Saskatchewan by the year 2002.

Option B, You will pay an additional \$ 14.00 per year for paper products for a total of \$ 441.10 per year for the next ten years. New Regulations will be used to maintain the current range and numbers of Woodland Caribou, approximately 3,600, in Northwestern Saskatchewan.

| Saskatchewan. | | |
|-------------------------------------|---------------------------|--------------------------|
| If you could vote for either Option | on A or B which one would | d you choose? (please 🗹) |
| □ 0 | ption A [| ☐ Option B |
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Coding Sheet

NOTE: unless stated other wise, 9's are for missing values and 8's are protest

| Code: Mailing: Mailing region: Version: | 6 digit, 1 digit, 1 digit, 1 digit, | 1st mailing, 2nd version, remaining four counters 1 for first, 2 for second 1 to Sask, 2 to Northwest 1 to 9 |
|--|--|---|
| Question 1 | | |
| 5. Read: 6. Watch: | 1 digit, 1 digit, | 1 for Yes, 0 for No 1 for Yes, 0 for No |
| Question 2 | | |
| 7. Hunt: 8. Actwild: 9. Actout: 10. Day1: | 1 digit, 1 digit, 1 digit, 4 digit, | 1 for Yes, 0 for No 1 for Yes, 0 for No 1 for Yes, 0 for No number of days, 9999 no response, 7777 not applicable |
| Question 3 | | |
| 11. Org: 12. Dollars: 13. Day2: | 1 digit, 5 digit, 4 digit, | 1 for Yes, 0 for No; belong to organization monies spent, 99999 no response, 77777 not applicable number of days, 9999 no response, 7777 not applicable |
| Question 4 | | |
| 14. Att1: 15. Att2: 16. Att3: 17. Att4: 18. Att5: 19. Att6: | 1 digit, | 4 to 1, st. agree to st. disagree, 0 no opinion 4 to 1, st. agree to st. disagree, 0 no opinion 4 to 1, st. agree to st. disagree, 0 no opinion 4 to 1, st. agree to st. disagree, 0 no opinion 4 to 1, st. agree to st. disagree, 0 no opinion 4 to 1, st. agree to st. disagree, 0 no opinion |
| Question 5 | | |
| 20. Heard: | 1 digit, | 1 for Yes, 0 for No: heard of W. Car. |
| Question 6 | | |
| 21. Seen: | 1 digit, | 1 for Yes, 0 for No: Seen a W. Car. |
| Question 7 | | |
| 22. Imp: | 1 digit, | 4 to 1, st. agr. to st. disagr., 0 for no opin., importance of W. Car. |
| Question 8 | | |
| 23. Rea1: 24. Rea2: 25. Rea3: | 1 digit, 1 digit, 1 digit, | 1 for Yes, 0 for No 1 for Yes, 0 for No 1 for Yes, 0 for No |
| | | |

| 26. Rea4: 27. Rea5: 28. Rea6: | 1 digit, 1 digit, 1 digit, | 1 for Yes, 0 for No 1 for Yes, 0 for No 1 for Yes, 0 for No |
|--|---|--|
| 29. Rea7: 30. Rea8: | 1 digit, 1 digit, | 1 for Yes, 0 for No 1 for Yes, 0 for No |
| Question 9 | | |
| 31. Imprea: | 1 digit, | 1 to 8, depending on above reasons, 0 multiply reasons given. |
| Question 10 | | |
| 32. Area1: 33. WTP1: 34. Value1 | 1 digit, 1 digit, 4 digit, | 1 for Sask, 2 for Northwest 1 for Option B, 0 for Option A; 9 no response, 8 protest, elicited value or value accepted or rejected, 7's N.A.,8's range of values, 8881 - \$100 000, 8811 - \$1 000 000. |
| Question 11 | | |
| 35. Area2: 36. WTP2: 37. Value2: | 1 digit, 1 digit, 4 digit, | 1 for Sask, 2 for Northwest, 7 N.A. 1 for Option B, 0 for Option A; 9 no response, 8 protest, 7 N.A. elicited value or value accepted or rejected, 7777 N.A., 8's for range of values, 8881 - \$100 000, 8811-\$1 000 000 |
| For the Ques Questions. | tions that follov | ving, numbering sequence depends on structure of previous CV |
| | | |
| Question 11/12 | | |
| Question 11/12 38. Rearef: | 1 digit, | 1 no benefits, 2 spend money on other, 3 Forest. ind., 4 other, 6 protest, 8 combination. |
| | 1 digit, 1 digit, | |
| 38. Rearef: | - | protest, 8 combination. |
| 38. Rearef: 39. Other: | - | protest, 8 combination. |
| 38. Rearef: 39. Other: Question 12/13 | 1 digit, | protest, 8 combination. coding for "other" selection, see attached sheet |
| 38. Rearef: 39. Other: Question 12/13 40. Sex: | 1 digit, | protest, 8 combination. coding for "other" selection, see attached sheet |
| 38. Rearef: 39. Other: Question 12/13 40. Sex: Question 13/14 | 1 digit, | protest, 8 combination. coding for "other" selection, see attached sheet 1 Male, 2 Female |
| 38. Rearef: 39. Other: Question 12/13 40. Sex: Question 13/14 41. Age: | 1 digit, | protest, 8 combination. coding for "other" selection, see attached sheet 1 Male, 2 Female |
| 38. Rearef: 39. Other: Question 12/13 40. Sex: Question 13/14 41. Age: Question 14/15 | 1 digit, 1 digit, 3 digit, | protest, 8 combination. coding for "other" selection, see attached sheet 1 Male, 2 Female age of respondent, 999 no response |
| 38. Rearef: 39. Other: Question 12/13 40. Sex: Question 13/14 41. Age: Question 14/15 42. NW: | 1 digit, 1 digit, 3 digit, | protest, 8 combination. coding for "other" selection, see attached sheet 1 Male, 2 Female age of respondent, 999 no response |
| 38. Rearef: 39. Other: Question 12/13 40. Sex: Question 13/14 41. Age: Question 14/15 42. NW: Question 15/16 | 1 digit,1 digit,3 digit,1 digit, | protest, 8 combination. coding for "other" selection, see attached sheet 1 Male, 2 Female age of respondent, 999 no response 0 never in Northwest, 1 has been in Northwest |

Question 17/18

45. Numind:

2 digit,

number of individuals in family

Question 18/19

46. Income:

2 digit,

income category, 99 no response, 88 protest

Question 19/20

47. Educ:

2 digit,

years of school completed, 0 no eduction, 99 missing, 88 protest

Question 20/21

48. Ocptn:

2 digit,

coded occupation, see attached sheet.

Coding for *other*

- 1. Amount too high/Can not afford to give
- 2. Government Responsibility
- 3. Responsibility of Forest Industry
- 4. Responsibility other
- 5. Other Options should be available
- 6. Other groups can not afford
- 7. Impossible to implement
- 8. National Responsibility
- 9. Miscellaneous
- 10. Other Priorities
- 11. Lots of caribou left/caribou will be alright
- 12. Just pay for Canada-refernce to the Saskatchewan question
- 13. Taxed enough/ pay enough in hunting fees
- 14. Should be a voluntary payment
- 15. More information required

For occupation coding please reference:

Adamowicz, W., P. Boxall, D. Watson and T. Peters. "A Socio-economic Evaluation of Sportfishing Activity in Southern Alberta", Project Report 92-01, Department of Rural Economy, University of Alberta, Edmonton, Alberta, Canada, (1992).