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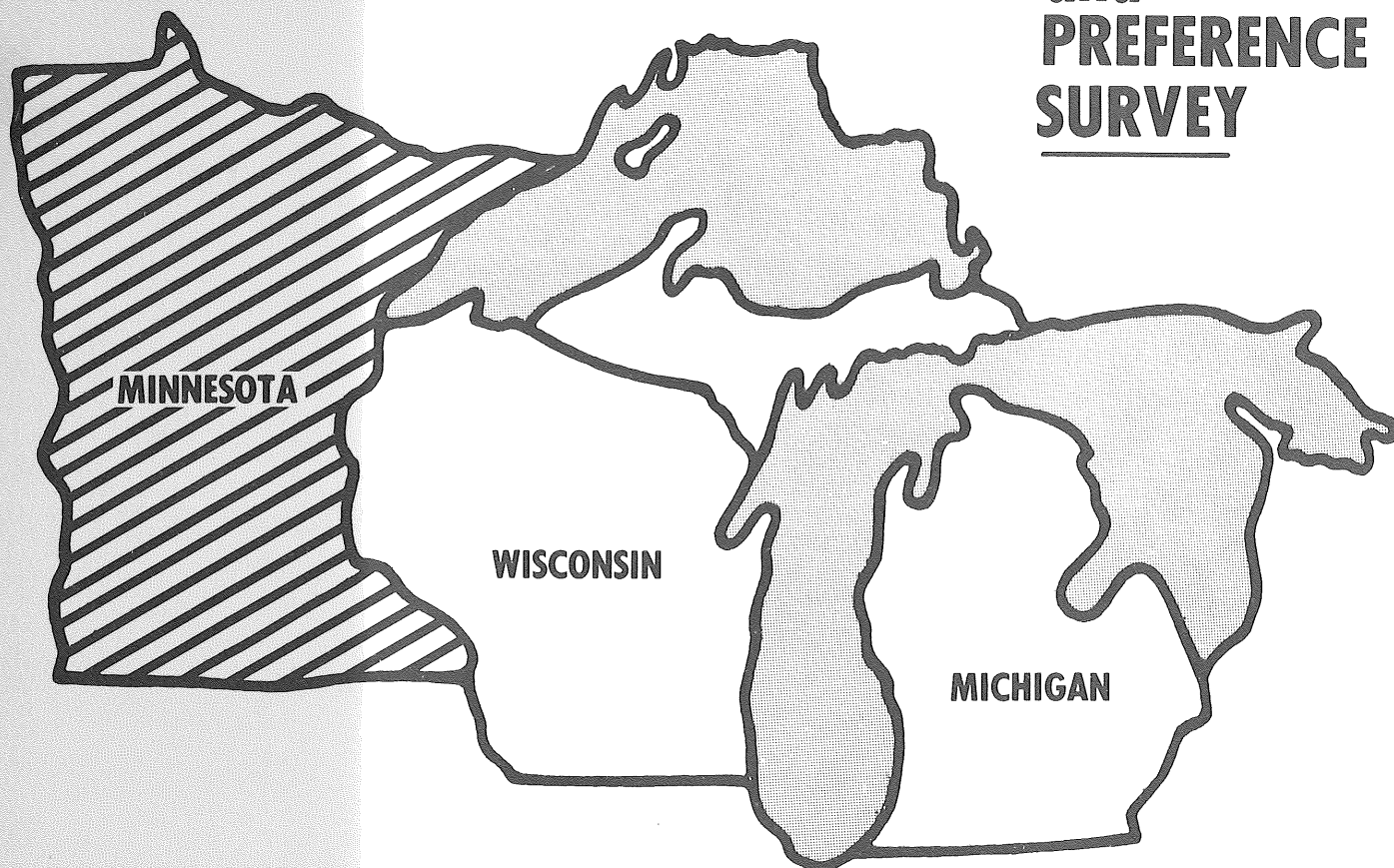
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MINNESOTA

SNOWMOBILER ECONOMIC and PREFERENCE SURVEY



**Minnesota Department of Natural Resources
and
Upper Great Lakes Regional Commission**

1974

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INTRODUCTION

The following research effort is intended to statistically describe the geographic distribution, economic preferences, and attitudes of the owners of the 273,333 snowmobiles registered in the State of Minnesota as of 1974. This research effort was conducted by a Gogebic Community College research team under the auspices of the Minnesota Department of Natural Resources and the Upper Great Lakes Regional Commission.

The purpose of the study is to identify, within the state, the geographic locations of the greatest snowmobiling usage, the average and total dollar amounts expended on the sport of snowmobiling, and the attitudes of the snowmobilers toward law enforcement, facilities, travel, etc. This was accomplished by categorizing the responses to the questionnaire into three main chapters which are as follows: 1) The Geographic Use chapter presents data on the current use of snowmobiles in terms of type of activity, land ownership, number of days, and time of day used. In this chapter is a land use origin-destination matrix. The data from this matrix shows areas receiving the heaviest use and allows estimates of future use and potential areas of congestion. 2) The Economic Impact chapter categorizes the spending of snowmobilers during 1973-74 and estimates of the total economic importance of snowmobiling as an industry. 3) The User Preferences chapter attempts to gain insights into the attitudes and preferences of the Minnesota snowmobiler. The questions of facilities and regulations are the primary intent of this section, although other material is included.

In addition, this study can be the basis for projection of future snowmobiler use patterns which will be beneficial to all interested in the sport of snowmobiling.

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METHODOLOGY

A list of questions was developed to meet the objectives of the study. A trial questionnaire was designed from these questions and mailed to a preliminary population sample of 300 snowmobile owners. Based on this trial questionnaire, a number of modifications were made resulting in the final questionnaire as shown in Appendix A.

A two percent random sample of all registered snowmobiles was sought, to obtain a degree of statistical confidence. This resulted in a total sample size of 6,992 questionnaires included in the initial mailing. 327 or approximately 4.7% were returned as being undeliverable.

Two follow-up mailings were completed to bring the total usable responses to 1,873, or 27 percent return of the 6,992 original mailed questionnaires.

The returned questionnaires were appropriately coded (numerically) for processing by the computer programs. The coding maintained all data in original form with the exception of Question 14 (Chapter 2) where the monetary amounts were grouped according to categories and dollar amounts.

87 respondents reported selling their machines, and 66 reported not using that particular machine during the 1973-74 season. This provided the 1,720 "active" responses used in the computer programs of the Michigan Department of Natural Resources, the University of Michigan, and Gogebic Community College when calculating data for selected questions.

To apply the responses to selected questions to a statewide basis, each response was given a value or scaling factor of 146. (The 273,333 snowmobiles were divided by the number of usable responses, 1,873, to achieve a scaling factor of 146.).

It should be noted that some of the questions were statistically analyzed by the Statistical Package for Social Science (SPSS) Program of Michigan State University using 1,593 questionnaire

responses. To develop statewide information from this data (SPSS), it is necessary to use a scaling factor of 157 instead of 146. SPSS tables are so marked.

The definition of "User-Day" is set forth in Question 4 of the survey: "A user-day is any day that you have spent all or in part in snowmobiling: If you spend 15 minutes snowmobiling Friday and 8 hours snowmobiling Saturday, that would be counted as two user-days."

The tabulated returns are shown on the following pages.

In-depth information regarding the survey is available upon request of the publication: Procedures and Statistics, the Three State Snowmobile Economic and Preference Survey, from Gogebic Community College, Ironwood, Michigan, 49938.

GOGEBIC COMMUNITY COLLEGE
Ironwood, Michigan

Project Coordinator -- Dr James D Perry, President

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SYNOPSIS OF RESPONSES

MINNESOTA

The purpose of this synopsis is not meant to be an all inclusive analysis, but rather, it will highlight the key findings by focusing upon the statistically meaningful questions and reported responses. The total number of respondents was 1,873. The following results are based upon this figure using the scaling factors explained in the Methodology.

For ease of following these results, the questions are presented in the order that they appeared on the questionnaire.

QUESTION 2: Do you presently own the snowmobile whose registration number is listed on the address sticker found at the top of the cover letter? Was this machine purchased as a new or used machine?

Of those who responded to this questionnaire, 4.3% had sold their machines and so were instructed not to complete the remainder of this question. Of the remaining respondents, 77.7% indicated that they had purchased that machine new.

QUESTION 3: Did you or your family operate that snowmobile during the past winter season?

The survey shows that 96.7% of the respondents did operate that snowmobile during this past winter (1973-74):

QUESTION 4: Where did you and/or your family use your snowmobile? How many days did you and/or your family use your snowmobile at each location?

Minnesota respondents indicated that 85% of their snowmobiling was done within their home region.

QUESTION 5: Please indicate the number of days you and/or your family spent on each of the following types of land: (Scaled responses which indicate user-days are listed with each land type heading).

- A. Own, relatives or friends property - 4,669,000 days
- B. Metro and city parks, golf courses, school property - 572,000 days
- C. State and National Forests - 1,100,000 days
- D. Corporate land - 532,000 days
- E. State parks and game and recreation areas - 700,000 days
- F. Outside Minnesota - 313,000 days
- G. Other (explain) - 1,202,000 days (with the majority of respondents specifying lakes and rivers)

These results indicate that the majority of snowmobiling in Minnesota was done on private property.

The total number of user days was 9,088,000.

QUESTION 6: For the days reported in Question 5, what were you doing? Please indicate the total number of days spent on each of the following activities: (Scaled responses which indicate user days are listed with each activity heading).

- A. Trail riding - 6,240,000 days
- B. Hunting, fishing or trapping - 844,000 days
- C. Racing - 201,000 days
- D. Other - 1,103,000 days

The results indicate that the majority of snowmobiling in Minnesota was done on trail riding activities.

The total number of days spent in these activities was 8,388,000.

QUESTION 7: How many days did you and/or your family snowmobile after dark?

*Scaled responses indicate that Minnesota snowmobilers spent 41% (3,591,000 days) of their time snowmobiling after dark.

QUESTION 8: How many days of snowmobiling were done on groomed trails?

*Scaled responses indicate that Minnesota snowmobilers spent 15% (1,294,000 days) of their snowmobiling on available groomed trails.

QUESTION 9: How many days of snowmobiling were done on marked trails?

*Scaled responses indicate that Minnesota snowmobilers spent 21% (1,833,000 days) of their snowmobiling time on marked trails.

* These results are based on 8,738,000 total days of snowmobiling, which is a rounded off average of responses to Questions 5 and 6.

QUESTION 10: Has the gasoline shortage caused you to spend any less time this year as compared to last year in snowmobiling? If yes, how many days less?

Scaled responses indicate that 24% of the respondents did spend less time snowmobiling due to the gas shortage, and the total number of days less was 708,230.

QUESTION 11:

A. Did you or anyone in your family make any overnight trips this season principally for snowmobiling?

30.5% of the Minnesota respondents indicated they made overnight trips for the purpose of snowmobiling.

B. If yes, how many trips were taken?

Scaled responses indicate that the total number of overnight trips was 321,690 and included 438,650 nights.

C. On those overnight trips, how many nights did you stay in the following types of accommodations?

1. Private home/cabin - 288,880
2. Motel/hotel - 49,460
3. Mobile home/trailer - 16,640
4. Camper - 25,430
5. Hunting lodge - 21,820
6. Other - 36,420 (Tents, church basements, etc.)

QUESTION 12: In areas where you were snowmobiling, would you say service facilities were adequate in terms of availability and quality? If not, why not?

50.3% of the Minnesota respondents said yes, 12.7% said no, and 36.9% said they didn't know. However, from the comments it would appear that many of the respondents did not understand the question and confused service facilities with trail facilities.

QUESTION 13: Was your snowmobile used by children (your own or others) in the age group of 12 through 15 years during the last year? If yes, how many children? How many of those children had had the Snowmobile Safety Training Course?

Scaled response indicates that in this age bracket, 106,800 snowmobiles were used by 234,000 youths, while 130,000 of these operators had completed the Snowmobile Safety Training Course. (The M D N R indicates that approximately 113,700 youths have completed the official Snowmobile Safety Training Course. Therefore, it is assumed that respondents were referring to courses in addition to the official M D N R course).

QUESTION 14: To the best of your knowledge, how much have you spent during the last 12 months on each of the following? (Scaled responses of Minnesota snowmobilers indicating the expenses they incurred are listed next to each classification).

- A. Major equipment - \$98,642,000 (Snowmobiles, trailers, sleds, and associated finance charges)
- B. Accessories - \$14,031,000 (Snowmobile clothing, optional equipment, etc.)
- C. Repairs - \$10,966,000 (Parts, labor, spares, tools, etc.)
- D. Gas and Oil - \$13,072,000 (Snowmobile only)
- E. Trips (Trailer used) - \$12,414,000 (Lodging, food, gas and oil for auto, etc.)
- F. Outings (Trailer not used) - \$4,820,000
- G. Insurance - \$6,495,000 (Snowmobile, trailer, etc.)

Scaled responses indicated that the total amount spent in these categories was \$160,440,000.

QUESTION 15: When snowmobiling, I find it: 1) desirable; 2) no opinion; 3) undesirable;
to:

- A. Use a cross country trail which returns to the same point at which it started.
 - 67.8% desirable
 - 26.1% no opinion
 - 6.2% undesirable
- B. Use a trail which goes to a point of scenic interest.
 - 75.8% desirable
 - 22.6% no opinion
 - 1.6% undesirable
- C. Use a trail which connects areas or towns.
 - 71.2% desirable
 - 24.2% no opinion
 - 4.6% undesirable
- D. To go on a marked trail.
 - 68.0% desirable
 - 26.7% no opinion
 - 5.2% undesirable

E. To go on a groomed trail.

61.8% desirable
32.3% no opinion
5.9% undesirable

F. To use large open areas.

62.8% desirable
25.4% no opinion
11.8% undesirable

G. To travel on unplowed roads.

63.3% desirable
25.2% no opinion
11.5% undesirable

H. To travel on the shoulder of plowed roads.

22.5% desirable
23.3% no opinion
54.2% undesirable

I. To travel near my home or cabin.

76.3% desirable
18.3% no opinion
5.3% undesirable

J. To travel in a more remote area.

64.8% desirable
26.1% no opinion
9.2% undesirable

K. To travel with friends and/or members of my snowmobile club.

81.2% desirable
15.6% no opinion
3.3% undesirable

A most significant factor shown here is that 54% of the Minnesota respondents found it undesirable to travel on the shoulder of plowed roads (H).

QUESTION 16: Please express how you would like snowmobile regulations. Use the following

key: 1) much stricter; 2) stricter; 3) same; 4) less strict; 5) much less strict.

A. Snowmobile regulations in general.

4.0% much stricter
 11.5% stricter
 71.1% same
 11.2% less strict
 2.3% much less strict

B. Regulations concerning youth in the 12 through 15 age group.

10.5% much stricter
 27.6% stricter
 54.6% same
 6.2% less strict
 1.1% much less strict

C. Noise levels created by snowmobiles.

12.7% much stricter
 29.3% stricter
 48.5% same
 7.3% less strict
 2.1% much less strict

D. The use of snowmobiles on frozen lakes.

8.3% much stricter
 14.9% stricter
 62.8% same
 8.6% less strict
 5.4% much less strict

E. The chasing of wild game.

68.1% much stricter
 14.4% stricter
 13.4% same
 2.2% less strict
 1.9% much less strict

F. The use of snowmobiles as transportation during deer hunting.

21.8% much stricter
 13.1% stricter
 41.6% same
 16.0% less strict
 7.6% much less strict

G. Operation of snowmobiles in residential areas.

16.8% much stricter
19.5% stricter
47.1% same
13.3% less strict
3.5% much less strict

H. Required safety equipment.

9.2% much stricter
24.5% stricter
60.8% same
3.6% less strict
1.8% much less strict

I. The maximum horsepower allowed for general use snowmobiles.

12.7% much stricter
21.3% stricter
51.6% same
8.3% less strict
6.1% much less strict

J. Enforcement of present regulations.

11.7% much stricter
21.8% stricter
60.4% same
4.5% less strict
1.6% much less strict

K. Speed limits.

9.1% much stricter
18.3% stricter
56.3% same
10.7% less strict
5.6% much less strict

A significant factor shown here indicates that Minnesota snowmobilers would like much stricter regulations governing the chasing of wild game (68.1%).

QUESTION 17: The following are possible uses of snowmobile regulation fees now collected by the State of Minnesota. Please indicate which you think are most important by using the following key: 1) very important; 2) important; 3) no opinion; 4) most important; 5) don't want.

A. Grooming present trails.

26.2% very important
41.2% important
21.7% no opinion
8.0% not important
3.0% don't want

B. Marking present trails.

28.2% very important
49.3% important
16.0% no opinion
4.8% not important
1.7% don't want

C. Establishing new trails.

43.1% very important
35.7% important
13.8% no opinion
4.4% not important
3.0% don't want

D. Youth snowmobile safety training.

44.7% very important
40.1% important
12.0% no opinion
2.4% not important
.9% don't want

E. Adult snowmobile safety training.

23.7% very important
36.5% important
26.0% no opinion
10.4% not important
3.5% don't want

F. Research.

15.3% very important
33.9% important
34.3% no opinion
12.1% not important
4.4% don't want

G. Law Enforcement costs.

10.4% very important
 37.6% important
 34.1% no opinion
 10.4% not important
 7.5% don't want

H. Distribution of maps of snowmobiling areas.

29.7% very important
 45.9% important
 16.3% no opinion
 6.3% not important
 1.8% don't want

84% of the respondents indicated the importance of Youth Snowmobile Training (D), and 79% indicated the importance of establishing new trails (C).

QUESTION 18: The following are possible facilities which might be provided by the state.

Please give us your opinion as to which are desirable. Use the following key: 1) very desirable; 2) desirable; 3) no opinion; 4) not desirable; 5) don't want.

A. Parking areas at the entrance to each trail.

30.9% very desirable
 46.5% desirable
 17.2% no opinion
 3.1% not desirable
 2.2% don't want

B. Toilets along the trails.

21.4% very desirable
 40.6% desirable
 22.8% no opinion
 9.9% not desirable
 5.3% don't want

C. Winter camping areas established along the trails.

12.2% very desirable
 34.2% desirable
 34.5% no opinion
 12.5% not desirable
 6.5% don't want

D. Three sided rest areas provided along the trails.

10.9% very desirable
 36.5% desirable
 36.6% no opinion
 10.4% not desirable
 5.5% don't want

E. Trash barrels at the entrances to all trails.

42.1% very desirable
 41.9% desirable
 12.5% no opinion
 2.1% not desirable
 1.5% don't want

F. Emergency telephones installed at all entrances to the trails.

27.7% very desirable
 36.7% desirable
 25.0% no opinion
 6.1% not desirable
 4.5% don't want

G. An East-West snowmobile trail across the northern portion of the Lake States.

18.5% very desirable
 24.2% desirable
 43.1% no opinion
 7.3% not desirable
 6.9% don't want

It appears that snowmobilers are anti-litter, as 84% of the respondents favored placing trash barrels at the entrances to all trails.

It is also significant to note that 42% of the total Minnesota respondents favored an east-west snowmobile trail across the northern portion of the Lake States. Minnesota snowmobilers also expressed a desire (77%) for parking areas at the entrances to each trail.

QUESTION 19: Do you belong to a Snowmobile Club or Sportsman's Club involved in snowmobiling?

Scaled responses indicate that 55,420 Minnesota snowmobilers (46.1%) belong to a Snowmobile or Sportsman's Club involved in snowmobiling.

QUESTION 20: Please write in the ages (both male and female) of the members of your family who snowmobiled, in the spaces at the right.

The average age reported for males is 25.8 and for females, 25.3.

QUESTION 21: Generally speaking, is snowmobiling a family or personal activity?

76.3% of the total response indicated that snowmobiling was a family activity.

QUESTION 22: Do you live within the limits of a city or town that has a population of 2,500 or more? If you answered no, do you live on a farm?

36.6% of the respondents indicated they lived within the limits of a city or town of more than 2,500, while 38.4% indicated they lived within the limits of a city or town of less than 2,500. 24.4% indicated they lived on farms.

QUESTION 23: What is your occupation?

The respondents results are indicated in percentages as follows:

A.	Professional	14.9%
B.	Clerical	1.4%
C.	Farmer or Farm Labor	11.2%
D.	Student	2.3%
E.	Managerial or Owner	15.6%
F.	Skilled Labor	26.5%
G.	Military or Law Enforcement	1.4%
H.	Sales	6.9%
I.	Unskilled Labor	2.4%
J.	Retired	2.6%
K.	Other	13.1% (Includes housewife)

QUESTION 24: Please check the box that fits your family income.

The respondents results are indicated in percentages as follows:

A.	Under \$5,000	3.3%
B.	\$5,000 - \$6,999	3.9%
C.	\$7,000 - \$9,999	12.5%
D.	\$10,000 - \$14,999	37.5%
E.	\$15,000 - \$24,999	28.9%
F.	Over \$25,000	9.0%

5.1% of the respondents left this question unanswered.

QUESTION 25: Are there any additional comments that you would like to make?

Approximately 25% of all respondents included one or more comments.

These were in the form of complaints, suggestions, information or clarification of a specific response from the questionnaire. It is the opinion of the team that the level of responsibility of the comments helped to reinforce the validity of the other responses; i.e., almost all of the comments seemed to be responsible.

CHAPTER 1

GEOGRAPHIC USE

QUESTIONS 1, 4, 5, 6, 7, 8, 9

CHAPTER 1

GEOGRAPHIC USE

This chapter provides the basis for a Geographic Analysis of the use of snowmobiles in the state. The basic questions are Number 1, which identifies the county of residence of the snowmobile owners, and Number 4, which provides a detailed identification of the counties in which the specific snowmobile was used. Questions 5,6,7,8 and 9 refer to the types of land trails utilized and the specific activities involved.

The distribution of responses by county and by DNR Administrative Region is provided in Table 1-A (Column 1, Total Responses).

The number of responses has also been compared with the most recent distribution of snowmobile registrations by county (May, 1974) to demonstrate how this survey represents the total statewide snowmobile registration.

The county-by-county percentage of response varies from a minimum of 0.13 in Wilkin County to a maximum of 1.48 in Rock County. When the Administrative Regions are compared, Administrative Region 1 shows 0.67%, Administrative Region 2 shows 0.77%, Administrative Region 3 shows 0.64%, Administrative Region 4 shows 0.61%, Administrative Region 5 shows 0.75% and Administrative Region 6 shows 0.70%.

Therefore, each Administrative Region appears to be adequately represented in this survey.

Administrative Region III consisting of fourteen counties just north of Minneapolis/St Paul, appears to be the most heavily used area with 1,819,014 user-days reported, which is actually 20% of the total user-days reported for the entire state. Additionally administrative Region III reported the highest rate of use by out-of-region snowmobilers; (25%). Of those user-days generated by out-of-region snowmobilers, 73% were generated by the residents of administrative Region VI.

Administrative Region VI, the seven counties around Minneapolis/St Paul reported the next highest use with 1,684,548 user-days I and II, both of which reporting slightly over 1,441,000 user-days.

Question 5 was designed to identify the ownership of land used for snowmobiling. Respondents indicated that 51% of the snowmobiling in Minnesota takes place on "own, relatives or friends property." State and National Forests account for 12% of the use.

Question 6 was seeking to learn the type of activities involved in snowmobiling. As might have been expected, trail riding was the most prevalent with 74% of the user-days reported in this activity.

Amount of night use was sought in Question 7. The respondents reported that 41% of the use was at night. The necessity of reflectorized trail markers is apparent.

Questions 8 and 9 were to identify the use of actual trails which were groomed and/or marked. The responses to these questions are not additive, because in the main, groomed trails are marked trails. However, as the respondents reported 15% of the time on groomed trails (Question 8) and 21% of the time on marked trails (Question 9), the results imply that only 6% (21% - 15%) of trail riding takes place on marked trails that are not groomed. When related to Question 6 (75% user-days on trail riding), the majority of the trails are neither groomed nor marked.

TABLE 1-A

County Number	County Name	Number of Responses	Number Sold	Not Used	Total	Percent [1]
3	Becker	21	1	2	3015	0.70
4	Beltrami	13	0	1	2461	0.53
14	Clay	18	1	0	3481	0.52
15	Clearwater	2	0	0	942	0.21
21	Douglas	22	1	2	3405	0.65
26	Grant	6	1	0	963	0.62
29	Hubbard	22	0	0	1872	1.18
35	Kittson	9	0	0	991	0.91
39	Lake of the Woods	5	0	1	556	0.90
43	Mahnomen	6	2	0	847	0.71
44	Marshall	11	0	0	1681	0.65
54	Norman	5	0	2	1031	0.48
56	Ottertail	35	2	1	4929	0.71
57	Pennington	15	0	0	2387	0.63
60	Polk	23	0	0	2865	0.80
61	Pope	9	0	0	1245	0.72
63	Red Lake	4	0	0	641	0.62
68	Roseau	20	1	1	2546	0.79
75	Stevens	4	0	1	979	0.41
78	Traverse	7	0	0	649	1.08
84	Wilkin	1	0	0	761	0.13
TOTAL	REGION 1	258	9	11	38,247	0.67
1	Aitkin	20	1	3	2319	0.86
9	Carlton	31	1	1	4236	0.73
16	Cook	5	0	0	748	0.67
31	Itasca	37	5	1	4947	0.75
36	Koochiching	17	2	1	2791	0.61
38	Lake	21	1	1	2385	0.88
69	St. Louis	175	6	15	22,558	0.78
TOTAL	REGION 2	306	16	22	39,984	0.77
5	Benton	12	0	0	1521	0.79
11	Cass	23	0	1	2467	0.93
13	Chisago	16	0	0	3380	0.47
18	Crowwing	37	2	1	6430	0.58
30	Isanti	17	1	1	2099	0.81
33	Kanabec	6	1	0	1193	0.50
48	Mille Lacs	18	0	2	2559	0.70
49	Morrison	16	1	1	2747	0.58
58	Pine	15	0	0	2599	0.58
71	Sherburne	20	1	0	2287	0.87
73	Stearns	50	2	3	8034	0.62
77	Todd	14	0	1	1917	0.73
83	Wadena	13	0	1	1483	0.88
86	Wright	25	1	0	5626	0.44
TOTAL	REGION 3	282	9	11	44,342	0.64

[1] Total Responses/Total Number of Snowmobiles

County Number	County Name	Number of Responses	Number Sold	Not Used	Total	Percent ^[1]
6	Big Stone	4	0	0	717	0.56
7	Blue Earth	20	1	0	1978	1.01
8	Brown	11	2	0	1791	0.61
12	Chippewa	9	0	0	1428	0.63
17	Cottonwood	5	0	0	1044	0.48
22	Faribault	9	0	1	1878	0.48
32	Jackson	5	0	0	843	0.59
34	Kandiyohi	20	0	0	3087	0.65
37	Lac Qui Parle	2	0	0	572	0.35
40	Le Sueur	14	1	0	2413	0.58
41	Lincoln	3	0	0	356	0.84
42	Lyon	8	0	1	1213	0.66
45	Martin	10	0	1	2068	0.48
46	McLeod	20	1	1	3213	0.62
47	Meeker	9	0	2	2542	0.35
51	Murray	3	0	0	547	0.55
52	Nicollet	14	0	0	2626	0.53
53	Nobles	7	0	0	1207	0.58
58	Pipestone	5	0	1	490	1.02
64	Redwood	14	1	2	1722	0.81
65	Renville	9	0	0	2063	0.44
67	Rock	8	0	0	542	1.48
72	Sibley	6	0	0	1316	0.46
76	Swift	7	0	0	1166	0.60
80	Waseca	11	0	1	1522	0.72
87	Yellow Medicine	6	0	0	1095	0.55
82	Watonwan	7	0	0	1221	0.57
TOTAL	REGION 4	246	6	10	40,660	0.61
20	Dodge	10	1	0	1383	0.72
23	Fillmore	8	0	0	1232	0.65
24	Freeborn	27	1	0	3279	0.82
25	Goodhue	31	0	3	3205	0.97
28	Houston	9	0	1	710	1.27
50	Mower	14	0	0	2526	0.55
55	Olmsted	27	1	1	4415	0.61
66	Rice	24	2	0	3149	0.76
74	Steele	18	1	0	2419	0.74
79	Wabasha	12	0	0	2012	0.60
85	Winona	12	0	0	1112	1.08
TOTAL	REGION 5	192	6	5	25,442	0.75
2	Anoka	96	3	6	13,517	0.71
10	Carver	18	2	0	2588	0.70
19	Dakota	67	3	4	8949	0.75
27	Hennepin	229	6	10	32,496	0.70
62	Ramsey	97	3	3	16,215	0.60
70	Scott	24	1	2	2904	0.83
81	Washington	50	1	1	6269	0.80
TOTAL	REGION 6	581	19	26	82,938	0.70

[1] Total Responses/Total Number of Snowmobiles

County Number	County Name	Number of Responses	Number Sold	Not Used	Total	Percent ^[1]
TOTAL	STATE	1865	65	85	271,613	0.69
88	Iowa	0	0	0		
89	North Dakota	1	0	0		
90	South Dakota	1	0	0		
91	Wisconsin	2	0	0		
92	Ontario	0	0	0		
93	Manitoba	0	0	0		
99	Other	4	1	1		
TOTAL	OUT OF STATE	8	1	1	1,720	0.47
TOTAL	SURVEY	1873	66	86	273,333	0.69

[1] Total Responses/Total number of Snowmobiles

A User-Day is any day that you have spent all or in part in snowmobiling: If you spent 15 minutes snowmobiling Friday and 8 hours snowmobiling Saturday, that would be counted as two user-days.

Where did you and/or your Family use your snowmobile?

How many days did you and/or your family use your snowmobile at each location?

- a. Reference Table 1-B-1 for November and December, 1973
- b. Reference Table 1-B-2 for January, 1974
- c. Reference Table 1-B-3 for February, 1974
- d. Reference Table 1-B-4 for March and April, 1974
- e. Reference Table 1-B-5 for Totals
- f. Reference Table 1-B-6 for Out-of-Region User-Days by Region of Destination

TABLE 1 - B - 1a*

STATE PLANNING REGION ORIGIN-DESTINATION: USERS
R E G I O N O F U S E

NOVEMBER & DECEMBER

REGION OF ORIGIN	1	2	3	4	5	6	0-STATE	TOTAL
1	29930	876	1022	292	146	0	730	30806
2	1022	31390	1022	438	292	146	1168	31974
3	1606	2044	31828	730	146	1022	1022	32850
4	2044	1022	1168	27886	730	584	292	29638
5	876	292	1460	1314	21462	292	584	23506
6	3504	7300	15622	2044	1460	50224	4672	62488
0-S	0	0	0	0	0	146	438	584
TOT	38982	42924	52122	32704	24236	52414	8906	211846

TABLE 1 - B - 1b*

STATE PLANNING REGION ORIGIN-DESTINATION: USER DAYS
R E G I O N O F U S E

NOVEMBER & DECEMBER

REGION OF ORIGIN	1	2	3	4	5	6	0-STATE	TOTAL
1	360620	16644	12118	3358	6132	0	10804	409676
2	4818	342370	8322	1168	3504	1168	4672	366022
3	11096	10220	314484	3066	438	15184	4526	359014
4	15038	3650	6570	304410	2482	5840	3066	341056
5	4672	4380	6570	12410	252142	876	1314	282364
6	16060	32120	82928	5402	7738	430554	23068	597870
0-S	0	0	0	0	0	584	9782	10366
TOT	412304	409384	430992	329814	272436	454206	57232	2366368

*Projections based on a scaling factor of 164.

TABLE 1 - B - 2a*

STATE PLANNING REGION ORIGIN-DESTINATION: USERS
R E G I O N O F U S E

JANUARY

REGION OF ORIGIN	1	2	3	4	5	6	0-STATE	TOTAL
1	30806	1022	1460	292	146	146	876	31682
2	1022	35186	1898	438	292	584	1606	36646
3	2190	2482	34456	1460	146	1314	1460	35478
4	2482	876	2336	28324	1168	1606	584	30076
5	876	730	1752	1168	22922	292	1314	24966
6	5694	9344	21608	2628	1752	54020	7592	67160
0-S	0	0	0	0	0	146	584	730
TOT	43070	49640	63510	34310	26426	58108	14016	226738

TABLE 1 - B - 2b*

STATE PLANNING REGION ORIGIN-DESTINATION: USER DAYS
R E G I O N O F U S E

JANUARY

REGION OF ORIGIN	1	2	3	4	5	6	0-STATE	TOTAL
1	403982	11388	7154	2044	4380	438	6424	435810
2	4088	404712	6862	1752	5694	4380	5694	433182
3	14308	7446	420918	2774	730	13724	6570	466470
4	21900	3942	9052	370402	5986	7884	4088	423254
5	6132	4818	6278	7446	309520	1022	4672	339888
6	25258	37084	112128	12848	9198	532754	37522	766792
0-S	0	0	0	0	0	1752	7154	8906
TOT	475668	469390	562392	397266	335508	561954	72124	2874302

*Projections based on a scaling factor of 164.

TABLE 1 - B - 3a*

STATE PLANNING REGION ORIGIN-DESTINATION: USERS								FEBRUARY
R E G I O N O F U S E								
REGION OF ORIGIN	1	2	3	4	5	6	0-STATE	TOTAL
1	30222	1314	1460	292	146	438	438	30514
2	876	34748	1460	438	292	292	1898	34894
3	1752	2774	34164	1460	584	1606	1606	34602
4	2044	584	1898	26864	876	1314	730	28032
5	1022	1022	1752	1314	21754	438	1460	23652
6	5256	9052	20440	2190	1022	52706	6716	62196
0-S	0	0	0	0	0	146	730	876
TOT	41172	49494	61174	32558	24674	56940	13578	214766

TABLE 1 - B - 3b*

STATE PLANNING REGION ORIGIN-DESTINATION: USER DAYS								FEBRUARY
R E G I O N O F U S E								
REGION OF ORIGIN	1	2	3	4	5	6	0-STATE	TOTAL
1	408946	9490	6132	1606	3796	730	5402	436102
2	6132	398142	8030	1168	3796	1022	5840	424130
3	12556	9782	399748	4380	2482	10512	7154	446614
4	17958	2336	9928	299154	4964	7592	6278	348210
5	5986	5986	6716	6132	246302	1314	4672	277108
6	25842	35478	117092	12556	6278	475960	36792	709998
0-S	0	0	0	0	0	146	7446	7592
TOT	477420	461214	547646	324996	267618	497276	73584	2649754

*Projections based on a scaling factor of 164.

TABLE 1 - B - 4a*

STATE PLANNING REGION ORIGIN-DESTINATION: USERS								MARCH & APRIL	
R E G I O N O F U S E									
REGION OF ORIGIN	1	2	3	4	5	6	0-STATE	TOTAL	
1	22484	584	1022	146	146	292	730	22484	
2	584	27886	584	584	292	292	730	28032	
3	1022	1460	22046	438	146	730	1168	21608	
4	1460	438	876	16206	438	584	584	17812	
5	584	438	146	584	14162	292	146	14746	
6	2190	5110	8176	1022	438	28324	3796	33726	
0-S	0	0	0	0	0	146	584	730	
TOT	28324	35916	32850	18980	15622	30660	7738	139138	

TABLE 1 - B - 4b*

STATE PLANNING REGION ORIGIN-DESTINATION: USER DAYS								MARCH & APRIL	
R E G I O N O F U S E									
REGION OF ORIGIN	1	2	3	4	5	6	0-STATE	TOTAL	
1	267910	11826	8760	1168	2190	292	6424	298570	
2	6570	297986	2482	1314	3358	730	1898	314338	
3	9344	7154	225132	584	438	3066	4234	249952	
4	7738	1168	3650	124976	1460	2628	3650	145270	
5	1752	2920	146	7884	112128	292	292	125414	
6	12702	18688	37814	5256	1168	163666	20440	259734	
0-S	0	0	0	0	0	438	11096	11534	
TOT	306016	339742	277984	141182	120742	171112	48034	1404812	

*Projections based on a scaling factor of 164.

TABLE 1 - B - 5a*

STATE PLANNING REGION ORIGIN-DESTINATION: USERS								TOTAL
REGION OF ORIGIN	REGION OF USE							
	1	2	3	4	5	6	0-STATE	TOTAL
1	33142	1752	2336	438	146	730	1460	34748
2	1606	37376	2190	730	292	730	2774	38836
3	2920	4672	36938	1752	584	2044	2774	38544
4	3212	2190	4234	30952	1606	1752	1752	33580
5	1606	1460	3066	2044	23652	438	2482	26280
6	9052	14746	28908	3650	2336	60006	10220	77526
0-S	0	0	0	0	0	146	730	876
TOT	51538	62196	77672	39566	28616	65846	22192	250390

TABLE 1 -- B - 5b*

STATE PLANNING REGION ORIGIN-DESTINATION: USER DAYS								TOTAL
REGION OF ORIGIN	REGION OF USE							
	1	2	3	4	5	6	0-STATE	TOTAL
1	1441458	49348	34164	8176	16498	1460	29054	1580158
2	21608	1443210	25696	5402	16352	7300	18104	1537672
3	47304	34602	1360282	10804	4088	42486	22484	1522050
4	62634	11096	29200	1098942	14892	23944	17082	1257790
5	18542	18104	19710	33872	920092	3504	10950	1024774
6	79862	123370	349962	36062	24382	1602934	117822	2334394
0-S	0	0	0	0	0	2920	35478	38398
TOT	1671408	1679730	1819014	1193258	996304	1684548	250974	9295236

*Projections based on a scaling factor of 164.

TABLE 1-B-6

OUT-OF-REGION USER-DAYS
BY REGION OF DESTINATION
PROJECTIONS BASED ON A SCALING FACTOR OF 146

(Reference Question 4)

<u>Region Number</u>	<u>Nov/Dec</u>	<u>Jan</u>	<u>Feb</u>	<u>Mar/Apr</u>	<u>Total</u>	<u>Percentage *</u>
1	51,684	71,686	68,474	38,106	229,950	14
2	67,014	64,678	63,072	41,756	236,520	14
3	116,508	141,474	147,898	52,852	458,732	25
4	25,404	26,864	25,842	16,206	94,316	8
5	20,294	25,988	21,316	8,614	76,212	8
6	23,652	29,200	21,316	7,446	81,614	5
Out of State	47,450	64,970	66,138	36,938	215,496	86
TOTAL	352,006	424,860	414,056	201,918	1,392,840	15

*Based on the total user days in that Region.

QUESTION 5: Please indicate the number of days you and/or your family spent on each of the following types of land.

A. Days spent on your own, relatives, or friends property.

<u>Days</u>	<u>Number of Respondents</u>	<u>Relative Frequency (Percent)</u>
0	398	25.0
1-9	374	23.5
10-19	249	15.6
20-29	202	12.7
30-39	106	6.7
40-49	86	5.4
50-59	53	3.3
60-69	40	2.5
70-79	26	1.6
80-89	17	1.1
90-99	42	2.6
TOTAL (SPSS)	1593	100.0

Average 18.4
Median 9.9

B. Days spent on metro and city parks, golf courses, school property, etc.

<u>Days</u>	<u>Number of Respondents</u>	<u>Relative Frequency (Percent)</u>
0	1267	79.5
1-9	204	12.8
10-19	57	3.6
20-29	33	2.1
30-39	13	0.8
40-49	10	0.6
50-59	4	0.3
60-69	2	0.1
70-79	1	0.1
80-89	0	0.0
90-99	2	0.1
TOTAL (SPSS)	1593	100.0

Average 2.3
Median 0.1

C. Days spent on State and National forests.

<u>Days</u>	<u>Number of Respondents</u>	<u>Relative Frequency (Percent)</u>
0	1041	65.3
1-9	333	20.9
10-19	107	6.7
20-29	44	2.8
30-39	26	1.6
40-49	14	0.9
50-59	12	0.8
60-69	6	0.4
70-79	4	0.3
80-89	2	0.1
90-99	4	0.3
TOTAL (SPSS)	1593	100.1

Average 4.3
Median 0.3

D. Days spent on corporate land.

<u>Days</u>	<u>Number of Respondents</u>	<u>Relative Frequency (Percent)</u>
0	1369	85.9
1-9	119	7.5
10-19	46	2.9
20-29	25	1.6
30-39	14	0.9
40-49	7	0.4
50-59	5	0.3
60-69	2	0.1
70-79	2	0.1
80-89	0	0.0
90-99	4	0.3
TOTAL (SPSS)	1593	100.0

Average 2.1
Median 0.1

E. Days spent on State Parks and Recreation areas.

<u>Days</u>	<u>Number of Respondents</u>	<u>Relative Frequency (Percent)</u>
0	1109	69.6
1-9	334	21.0
10-19	88	5.5
20-29	34	2.1
30-39	9	0.6
40-49	10	0.6
50-59	3	0.2
60-69	2	0.1
70-79	1	0.1
80-89	2	0.1
90-99	1	0.1
TOTAL (SPSS)	1593	100.0
Average	2.8	
Median	0.2	

F. Days spent outside Minnesota.

<u>Days</u>	<u>Number of Respondents</u>	<u>Relative Frequency (Percent)</u>
0	1379	86.6
1-9	162	10.2
10-19	25	1.6
20-29	13	0.8
30-39	7	0.4
40-49	3	0.2
50-59	0	0.0
60-69	0	0.0
70-79	1	0.1
80-89	0	0.0
90-99	3	0.2
TOTAL (SPSS)	1593	100.1
Average	1.2	
Median	0.1	

G. Days spent on other land types.

<u>Days</u>	<u>Number of Respondents</u>	<u>Relative Frequency (Percent)</u>
0	1164	73.1
1-9	185	11.6
10-19	92	5.8
20-29	60	3.8
30-39	41	2.6
40-49	22	1.4
50-59	10	0.6
60-69	5	0.3
70-79	6	0.4
80-89	3	0.2
90-99	5	0.3
TOTAL (SPSS)	1593	99.9
Average	4.8	
Median	0.2	

TABLE 1-C

Number of Users by Administrative Region of Origin and Type of Land

(Response to Question 5)

<u>Land Type</u>	<u>Admin. Reg. 1</u>	<u>Admin. Reg. 2</u>	<u>Admin. Reg. 3</u>	<u>Admin. Reg. 4</u>	<u>Admin. Reg. 5</u>	<u>Admin. Reg. 6</u>	<u>Out of State</u>	<u>Total</u>
Own Property	194	182	211	193	142	368	3	1293
Metro & City Parks	49	53	39	52	45	114	0	352
State & National Forests	65	154	105	42	43	180	1	590
Corporate Land	25	67	26	23	19	82	0	242
State Parks & Recreation Areas	73	82	69	70	62	158	1	515
Outside Minnesota	22	33	25	23	28	101	3	235
Other Land	55	64	65	67	47	162	1	461

TABLE 1-D

Number of User-Days by Administrative Region of Origin and Type of Land
(Response to Question 5)

<u>Land Type</u>	<u>Admin. Reg. 1</u>	<u>Admin. Reg. 2</u>	<u>Admin. Reg. 3</u>	<u>Admin. Reg. 4</u>	<u>Admin. Reg. 5</u>	<u>Admin. Reg. 6</u>	<u>Out of State</u>	<u>Total</u>
Own Property	6352	4460	5601	4920	3832	6795	17	31,977
Metro & City Parks	674	759	291	560	570	1064	0	3,918
State & National Forests	971	2800	1360	278	482	1631	12	7,534
Corporate Land	406	1090	482	283	312	1070	0	3,643
State Parks & Recreation Areas	688	766	792	667	469	1409	1	4,792
Outside Minnesota	392	217	235	225	173	776	126	2,144
Other Land	1011	1167	1372	1022	710	2932	20	8,234

TABLE 1-E

Mean Number of User-Days per Questionnaire by Administrative Region of Origin and Type of Land *

<u>Land Type</u>	<u>Admin. Reg. 1</u>	<u>Admin. Reg. 2</u>	<u>Admin. Reg. 3</u>	<u>Admin. Reg. 4</u>	<u>Admin. Reg. 5</u>	<u>Admin. Reg. 6</u>	<u>Out of State</u>
Own Property	24.6	14.6	19.9	20.0	20.0	11.7	2.1
Metro and City Parks	2.6	2.5	1.0	2.3	3.0	1.8	0.0
State & National Forests	3.8	9.1	4.8	1.1	2.5	2.8	1.5
Corporate Land	1.6	3.6	1.7	1.2	1.6	1.8	0.0
State Parks & Recreation Areas	2.7	2.5	2.8	2.7	2.4	2.4	0.1
Outside Minnesota	1.5	0.7	0.8	0.9	0.9	1.3	15.8
Other	3.9	3.8	4.9	4.2	3.7	5.0	2.5

*Based on 258 Admin. Region 1, 306 Admin. Region 2, 282 Admin. Region 3, 246 Admin. Region 4, 192 Admin. Region 5, 581 Admin. Region 6, and 8 for Out of State.

TABLE 1-F

Projections of Total Number of User-Days Based on Responses
to Question 5

<u>Land Type</u>	<u>Reported Total</u>	<u>Projected State Total*</u>	<u>Percentage Of Total</u>
Own Property	31,977	4,669,000	51
Metro & City Parks	3,918	572,000	6
State & National Forests	7,534	1,100,000	12
Corporate Land	3,643	532,000	6
State Parks & Recr. Areas	4,792	700,000	8
Outside Minnesota	2,144	313,000	3
Other	8,234	1,202,000	13
TOTAL	62,242	9,088,000	100

* Reported total of times the Scaling Factor of 146.

QUESTION 6: Now: For the days reported in Question 5 above, what were you doing?

Please indicate total number of days spent in each of the following activities.

A. Days spent trail riding.

<u>Days</u>	<u>Number of Respondents</u>	<u>Relative Frequency (Percent)</u>
0	193	12.1
1-9	328	20.6
10-19	291	18.3
20-29	221	13.9
30-39	184	11.6
40-49	131	8.2
50-59	66	4.1
60-69	67	4.2
70-79	38	2.4
80-89	20	1.3
90-99	54	3.4
TOTAL (SPSS)	1593	100.1

Average 25.1
Median 18.7

B. Days spent hunting, fishing or trapping.

<u>Days</u>	<u>Number of Respondents</u>	<u>Relative Frequency (Percent)</u>
0	1236	77.6
1-9	191	12.0
10-19	76	4.8
20-29	30	1.9
30-39	23	1.4
40-49	17	1.1
50-59	7	0.4
60-69	2	0.1
70-79	6	0.4
80-89	1	0.1
90-99	4	0.3
TOTAL (SPSS)	1593	100.1
Average	3.3	
Median	0.1	

C. Days spent racing.

<u>Days</u>	<u>Number of Respondents</u>	<u>Relative Frequency (Percent)</u>
0	1443	90.6
1-9	104	6.5
10-19	24	1.5
20-29	11	0.7
30-39	4	0.3
40-49	2	0.1
50-59	3	0.2
60-69	2	0.1
70-79	0	0.0
80-89	0	0.0
90-99	0	0.0
TOTAL (SPSS)	1593	100.0
Average	0.8	
Median	0.1	

D. Days spent in other activities.

<u>Days</u>	<u>Number of Respondents</u>	<u>Relative Frequency (Percent)</u>
0	1283	80.5
1-9	121	7.6
10-19	56	3.5
20-29	53	3.3
30-39	28	1.8
40-49	24	1.5
50-59	5	0.3
60-69	4	0.3
70-79	6	0.4
80-89	5	0.3
90-99	8	0.5
TOTAL (SPSS)	1593	100.0
Average	4.1	
Median	0.1	

TABLE 1-G

Number of Users by Administrative Region of Origin and Type of Activity

(Response to Question 6)

<u>Activity</u>	<u>Admin. Reg. 1</u>	<u>Admin. Reg. 2</u>	<u>Admin. Reg. 3</u>	<u>Admin. Reg. 4</u>	<u>Admin. Reg. 5</u>	<u>Admin. Reg. 6</u>	<u>Out of State</u>	<u>Total</u>
Trail Riding	188	236	236	199	167	481	4	1,511
Hunt/Fish	69	88	69	42	20	94	2	384
Racing	20	15	27	28	20	46	1	157
Other	71	53	44	60	29	89	1	347

TABLE 1-H

Number of User-Days by Administrative Region of Origin and Type of Activity

(Response to Question 6)

<u>Activity</u>	<u>Admin. Reg. 1</u>	<u>Admin. Reg. 2</u>	<u>Admin. Reg. 3</u>	<u>Admin. Reg. 4</u>	<u>Admin. Reg. 5</u>	<u>Admin. Reg. 6</u>	<u>Out of State</u>	<u>Total</u>
Trail Riding	5,495	7,716	7,463	5,196	4,907	11,918	44	42,739
Hunt/Fish	1,300	1,067	1,112	845	296	1,049	114	5,783
Racing	221	129	255	193	173	386	20	1,377
Other	2,224	1,083	956	1,410	554	1,229	99	7,555

TABLE 1-I

Mean Number of User-Days per Questionnaire by Administrative Region of Origin and the Type of Activity *

<u>Activity</u>	<u>Admin. Reg. 1</u>	<u>Admin. Reg. 2</u>	<u>Admin. Reg. 3</u>	<u>Admin. Reg. 4</u>	<u>Admin. Reg. 5</u>	<u>Admin. Reg. 6</u>	<u>Out of State</u>
Trail Riding	21.3	25.2	26.5	21.1	25.6	20.5	5.5
Hunt/Fish	5.0	3.5	3.9	3.4	1.5	1.8	14.3
Racing	0.9	0.4	0.9	0.8	0.9	0.7	2.5
Other	8.6	3.5	3.4	5.7	2.9	2.1	12.4

* Based on 258 Admin. Region 1, 306 Admin. Region 2, 282 Admin. Region 3, 246 Admin. Region 4, 192 Admin. Region 5, 581 Admin. Region 6, and 8 for Out of State.

TABLE 1-Ja

Projections of Total Number of User-Days Based on Responses to Question 6

<u>Activity</u>	<u>Reported Total</u>	<u>Projected State Total*</u>	<u>Percentage</u>
Trail Riding	42,739	6,240,000	74
Hunt/Fish	5,783	844,000	10
Racing	1,377	201,000	2
Other	7,555	1,103,000	13
TOTAL	57,454	8,388,000	100

* Reported total times the scaling factor of 146.

TABLE 1-Jb

Projections of Total Number of Users Based on Responses to Question 6

<u>Activity</u>	<u>Reported Total</u>	<u>Projected Minnesota Total *</u>
Trail Riding	1,511	220,600
Hunt/Fish	384	56,060
Racing	157	22,920
Other	347	50,660

* Reported total times the scaling factor of 146.

QUESTION 7: How many days did you and/or your family snowmobile after dark?

<u>Days</u>	<u>Number of Respondents</u>	<u>Relative Frequency (Percent)</u>
0	272	17.1
1-9	492	30.9
10-19	349	21.9
20-29	222	13.9
30-39	102	6.4
40-49	68	4.3
50-59	40	2.5
60-69	21	1.3
70-79	9	0.6
80-89	9	0.6
90-99	9	0.6
TOTAL (SPSS)	1593	100.1
Average	14.3	
Median	9.7	

QUESTION 8: How many days of snowmobiling were done on groomed trails?

<u>Days</u>	<u>Number of Respondents</u>	<u>Relative Frequency (Percent)</u>
0	850	53.4
1-9	471	29.6
10-19	150	9.4
20-29	48	3.0
30-39	28	1.8
40-49	19	1.2
50-59	14	0.9
60-69	4	0.3
70-79	3	0.1
80-89	2	0.1
90-99	4	0.3
TOTAL (SPSS)	1593	100.0
Average	5.1	
Median	0.4	

QUESTION 9: How many days of snowmobiling were done on marked trails?

<u>Days</u>	<u>Number of Respondents</u>	<u>Relative Frequency (Percent)</u>
0	649	40.7
1-9	537	33.7
10-19	206	12.9
20-29	96	6.0
30-39	41	2.6
40-49	27	1.7
50-59	16	1.0
60-69	6	0.4
70-79	5	0.3
80-89	3	0.2
90-99	7	0.4
TOTAL (SPSS)	1593	99.9
Average	7.3	
Median	2.0	

TABLE 1-K

Number of Users by Administrative Region of Origin for Questions 7, 8 and 9

<u>Question</u>	<u>Admin. Reg. 1</u>	<u>Admin. Reg. 2</u>	<u>Admin. Reg. 3</u>	<u>Admin. Reg. 4</u>	<u>Admin. Reg. 5</u>	<u>Admin. Reg. 6</u>	<u>Out of State</u>	<u>Total</u>
7 - Night Use	189	207	219	194	166	448	4	1,427
8 - Groomed Trails	95	157	129	89	70	254	1	795
9 - Marked Trails	104	172	149	109	116	359	3	1,012

TABLE 1-L

Number of User-Days by Administrative Region of Origin for Questions 7, 8 and 9

<u>Question</u>	<u>Admin. Reg. 1</u>	<u>Admin. Reg. 2</u>	<u>Admin. Reg. 3</u>	<u>Admin. Reg. 4</u>	<u>Admin. Reg. 5</u>	<u>Admin. Reg. 6</u>	<u>Out of State</u>	<u>Total</u>
7 - Night Use	3297	3731	4225	3248	3262	6717	118	24,598
8 - Groomed Trails	949	2268	1654	785	854	2349	1	8,860
9 - Marked Trails	1091	2231	1942	952	1351	4984	7	12,558

TABLE 1-M

Average Number of User-Days per Questionnaire by Administrative Region of Origin for Questions 7, 8 and 9 *

<u>Question</u>	<u>Admin. Reg. 1</u>	<u>Admin. Reg. 2</u>	<u>Admin. Reg. 3</u>	<u>Admin. Reg. 4</u>	<u>Admin. Reg. 5</u>	<u>Admin. Reg. 6</u>	<u>Out of State</u>
7 - Night Use	12.8	12.2	15.0	13.2	17.0	11.6	14.8
8 - Groomed Trails	3.7	7.4	5.9	3.2	4.4	4.0	0.1
9 - Marked Trails	4.2	7.3	6.9	3.9	7.0	8.6	0.9

* Based on 258 Admin. Region 1, 306 Admin. Region 2, 282 Admin. Region 3, 246 Admin. Region 4, 192 Admin. Region 5, 581 Admin. Region 6, and 8 for Out of State.

TABLE 1-N

Projections of Total Number of User-Days Based on Response to Questions 7, 8 and 9

<u>Question</u>	<u>Reported Total</u>	<u>Projected State Total*</u>	<u>Percent of Use**</u>
7 - Night Use	24,598	3,591,000	41
8 - Groomed Trails	8,860	1,294,000	15
9 - Marked Trails	12,558	1,833,000	21

* Reported Total times the scaling factor of 146.

** Based on 8,738,000 User-Days

CHAPTER 2
ECONOMIC IMPACT AND SOCIO-ECONOMIC DATA

QUESTIONS 2, 3, 10, 11, 12, 13,
14, 19, 20, 21, 22, 23, 24

ECONOMIC IMPACT AND SOCIO-ECONOMIC DATA

Chapter 2 includes responses to questions of an economic nature and to questions providing demographic information, as age and occupation of the snowmobiler. Estimates of expenditures for snowmobiling are made and characteristics of the Minnesota snowmobiler are identified. Questions 2, 3, 10, 11, 12, 13, and 14 are categorized as economic and Questions 19, 20, 21, 22, 23 and 24 are categorized as demographic.

The distribution of responses to Question 2 (ownership of the identified snowmobile) on a county basis is provided in Table 1-A, Chapter 1. The great majority of the snowmobiles were reported to have been purchased new.

Responses to Question 3 indicate that 3.7% of the owners of the specific snowmobile surveyed did not use the machine during the 1973-74 season.

Question 10 is to learn of the effect of the gasoline shortage. Approximately one-fourth of the respondents estimated a lesser amount of time snowmobiling due to the shortage.

The number of overnight trips and the types of accommodations utilized were reported for Question 11. Nearly one-third of the respondents made overnight trips. Private home/cabin accounted for 65% of the reported nights, with motel/hotel accommodations reported for 11% of the nights.

Question 12 was included to measure customer satisfaction with dealers and repair service. Approximately 50% reported adequacy and 12% indicated lack of adequacy. The remaining 36% "don't know", which could lead to a conclusion that the respondents did not completely understand the question, as this is a question with which snowmobilers should have direct knowledge.

Question 13 was designed to measure the number of trained and untrained youths operating snowmobiles. The official D N R Snowmobile Safety Training Course is reaching a large number of youths (113,760) and a number of informal training experiences appear to be provided.

Spending in seven categories was itemized in Question 14. Approximately 42% of the respondents spent money on trips where it was necessary to trailer the snowmobile. When it was not necessary to trailer the snowmobile for a trip, 72% of the respondents reported not spending money, implying that such activity does not involve frequent stops and/or out-of-pocket expense.

Question 19 identifies 22% of Minnesota snowmobilers as members of an organized Snowmobile or Sportsmans Club, involved in snowmobiling.

The ages of the members of the family who snowmobile were sought by Question 20. The question of age of the principal operator and/or the head of the household was not specifically asked, therefore reference should be made directly to the charts of the response for Question 20. The respondents appear to first list husband and wife, followed chronologically by dependent children. Therefore, the first male or female reported is assumed to represent the head of the household. The average size of family reported is 3.5 members.

The responses to Question 21 clearly indicate that snowmobilers consider the sport to be a family activity, with approximately 77% responding in this manner.

Question 22 identifies that approximately 30% of respondents reside in towns or cities with populations of less than 2,500; 46% reside in towns or cities with populations greater than 2,500.

The occupational group resented by the largest number of respondents is "Skilled Labor" with 27% (Question 23).

Approximately 66% of the owners reported incomes of between \$10,000 and \$24,999, while approximately 5% of the respondents declined to answer this question (Number 24).

QUESTION 2: Do you presently own a snowmobile? ___ Yes ___ No. If yes, please enter below its make, horsepower ratio, and registration number. If no, you have finished with the questionnaire. Please return it in the enclosed envelope.

A.

<u>Response</u>	<u>Number of Respondents</u>	<u>Relative Frequency (Percent)</u>
Yes	1786	95.4
No	87	4.6
TOTAL	1873	100.0

B. Was this machine purchased new or used?

New	1238	77.7
Used	355	22.3
TOTAL (SPSS)	1593	100.0

QUESTION 3: Did you or your family operate that snowmobile during the past winter season?

Yes	1720	96.3
No	66	3.7
TOTAL	1786	100.0

QUESTION 10:

A. Has the gasoline shortage caused you to spend any less time this year as compared to last year in snowmobiling?

Yes	377	23.7
No	1216	76.3
TOTAL (SPSS)	1593	100.0

B. How many days less?

<u>Days</u>	<u>Number of Respondents</u>	<u>Relative Frequency (Percent)</u>
0	1216	76.3
1-9	88	5.5
10-19	128	8.0
20-29	60	3.8
30-39	25	1.6
40-49	1	0.1
50-59	4	0.3
60-69	5	0.3
70-79	1	0.1
80-89	0	0.0
90-99	0	0.0
Missing	65	4.1
TOTAL (SPSS)	1593	100.0

Note: MISSING are those respondents who indicated YES to the first part of Question 10, but did not indicate the number of days.

TABLE 2-A

Number of Days Reported in
Question 10

The reported total is 4,511 days less.

The projected total is $4,511 \text{ days} \times 157 = 708,230 \text{ days less.}$

Average reported is 2.6 days less.

QUESTION 11:

- A. Did you or anyone in your family make any overnight trips principally for snowmobiling?

<u>Response</u>	<u>Number of Respondents</u>	<u>Relative Frequency (Percent)</u>
Yes	526	33.0
No	1050	65.9
Missing	17	1.1
TOTAL (SPSS)	1593	100.0

B. How many trips were taken?

<u>Number of Trips</u>	<u>Number of Respondents</u>	<u>Relative Frequency (Percent)</u>
0	1050	65.9
1	192	12.1
2	138	8.7
3	64	4.0
4	29	1.8
5	29	1.8
6-10	62	3.9
11-15	14	0.9
16-20	4	0.3
21-25	3	0.2
26-30	3	0.2
More Than 30	5	0.3
TOTAL (SPSS)	1593	100.1

Average 3.866
 Median 2.076 Of those who reported other than zero.

Total number of trips reported is 2,049.

The projected number of trips is $2,049 \times 157 = 321,700$. Average - 1.2 trips per respondent.

C.(1) How many nights did you stay in a private home or cabin?

<u>Number of Nights</u>	<u>Number of Respondents</u>	<u>Adjusted Frequency (Percent)</u>
1-5	276	74.4
6-10	58	15.6
11-15	21	5.7
16-20	4	1.1
21-25	4	1.1
26-30	3	0.8
31-35	2	0.5
36-40	1	0.3
41-45	0	0.0
46-50	0	0.0
51 or More	2	0.5
TOTAL (SPSS)	371	100.0

Average 4.960
 Median 2.776 Of those who reported other than zero.

The total number of nights reported is 1,840.

C.(2) How many nights did you stay in a Motel or Hotel?

<u>Number of Nights</u>	<u>Number of Respondents</u>	<u>Adjusted Frequency (Percent)</u>
1-5	114	91.9
6-10	8	6.5
11-15	2	1.6
16-20	0	0.0
21-25	0	0.0
More Than 25	0	0.0
TOTAL (SPSS)	124	100.0

Average 2.528 Of those who reported other than zero.
 Median 1.912

The total number of nights reported is 315.

C.(3) How many nights did you stay in a mobile home or trailer?

<u>Number of Nights</u>	<u>Number of Respondents</u>	<u>Adjusted Frequency (Percent)</u>
1-5	25	83.3
6-10	4	13.3
11-15	0	0.0
16-20	0	0.0
21-25	0	0.0
More Than 25	1	3.3
TOTAL (SPSS)	30	99.9

Average 3.533 Of those who reported other than zero.
 Median 1.875

The total number of nights reported is 106.

C.(4) How many nights did you stay in a camper?

<u>Number of Nights</u>	<u>Number of Respondents</u>	<u>Adjusted Frequency (Percent)</u>
1-5	30	34.9
6-10	54	62.8
11-15	0	0.0
16-20	1	1.2
21-25	0	0.0
More Than 25	1	1.2
TOTAL (SPSS)	86	100.1

Average 4.154 Of those who reported other than zero.
 Median 2.182

The total number of nights reported is 162.

C.(5) How many nights did you stay at a hunting lodge?

<u>Number of Nights</u>	<u>Number of Respondents</u>	<u>Adjusted Frequency (Percent)</u>
1-5	43	89.6
6-10	4	8.3
11-15	1	2.1
16-20	0	0.0
21-25	0	0.0
More Than 25	0	0.0
TOTAL (SPSS)	48	100.0

Average 2.896
 Median 2.200 Of those who reported other than zero.

The total number of nights reported is 139.

C.(6) How many nights did you stay in other accommodations?

<u>Number of Nights</u>	<u>Number of Respondents</u>	<u>Adjusted Frequency (Percent)</u>
1-5	46	92.0
6-10	1	2.0
11-15	1	2.0
16-20	1	2.0
21-25	0	0.0
More Than 25	1	2.0
TOTAL (SPSS)	50	100.0

Average 4.64
 Median 1.900 Of those who reported other than zero.

The total number of nights reported is 232.

TABLE 2-B

The projected number of trips and the number of nights spent away from home by Administrative Region of Origin.

Question 11

	<u>Admin Region I</u>	<u>Admin Region II</u>	<u>Admin Region III</u>	<u>Admin Region IV</u>	<u>Admin Region V</u>	<u>Admin Region VI</u>
Number of Trips	17,520	38,544	34,456	21,608	13,724	229,950
Number of Nights	28,324	46,574	74,022	30,660	24,966	245,280
Average Nights per Trip	1.6	1.2	2.1	1.4	1.8	1.1
Average Trips per Total Respondents*	0.5	0.9	0.8	0.6	0.5	2.7

*Based on Responses to Question 7 as reported in Table I-M.

TABLE 2-C

The Total Reported Nights Spent in Various
Accommodations

<u>Accommodation</u>	<u>Total Number of Nights</u>	<u>Percent of Total</u>	<u>Projected Minnesota Total *</u>
Private Home	1840	65.9	288,880
Motel/Hotel	315	11.3	49,460
Mobile Home/Trailer	106	3.8	16,640
Camper	162	5.8	25,430
Hunting Lodge	139	5.0	21,820
Other	232	8.3	36,420
TOTAL (SPSS)	2794	100.1	438,650

* Total multiplied by 157.

QUESTION 12: In areas where you were snowmobiling, would you say service facilities were adequate in terms of availability and quality?

<u>Response</u>	<u>Number of Respondents</u>	<u>Relative Frequency (Percent)</u>
Yes	802	50.3
No	203	12.7
Don't Know	588	36.9
TOTAL (SPSS)	1593	99.9

QUESTION 13: Was your snowmobile used by children (your own or others) in the age group of 12 through 15 years during the last year? If yes, how many children?

<u>Number of Children</u>	<u>Number of Respondents (Snowmobiles)</u>	<u>Relative Frequency (Percent)</u>
A. No	913	57.3
Yes - 1	249	15.6
2	243	15.3
3	104	6.5
4	52	3.3
5	15	0.7
6	4	0.3
7	2	0.1
8	2	0.1
9	2	0.1
10	4	0.3
11	1	0.1
18	1	0.1
20	1	0.1

TOTAL 1593 100.0

Total Children - 1,491.

B. How many of these children had the Snowmobile Safety Training Course?

<u>Number of Children</u>	<u>Number of Respondents (Snowmobiles)</u>	<u>Adjusted Frequency (Percent)</u>
0	208	30.6
1	237	34.9
2	163	24.0
3	47	6.9
4	22	3.2
5	2	0.3
6	1	0.1
9	1	0.1
12	1	0.1
TOTAL	680	100.0

Total Children - 829.

TABLE 2-D

	<u>Reported Number</u>	<u>Projected State Total*</u>
Youth Operators	1491	234,000
Trained Youth Operators	829	130,000
Untrained Youth Operators	662	104,000

* Number times the scaling factor of 157.

TABLE 2-E

Snowmobiles Operated by
Youths

<u>Reported Number</u>	<u>Projected State Total*</u>
680	106,800

* Number times the scaling factor of 157.

QUESTION 14: To the best of your knowledge, how much have you spent during the last twelve months on each of the following:

A. To the best of your knowledge, how much have you spent during the last twelve months on major equipment (snowmobiles, trailers, sleds, and associated finance charges)?

<u>Category</u>	<u>Amount</u>	<u>Mid-Point Amount</u>	<u>No. of Responses</u>	<u>Estimated Amount</u>	<u>Percent</u>
0	0.00	0.00	893	0.00	51.7
1	0.01 - 49.99	25.00	65	1,625.00	3.77
2	50.00 - 199.99	125.00	93	11,625.00	5.39
3	200.00 - 349.99	275.00	66	18,150.00	3.83
4	350.00 - 499.99	425.00	68	28,900.00	3.94
5	500.00 - 649.99	575.00	91	52,325.00	5.28
6	650.00 - 799.99	725.00	57	41,325.00	3.30
7	800.00 - 949.99	875.00	109	95,375.00	6.32
8	950.00 - 1099.99	1025.00	73	74,825.00	4.23
9	1100.00 and above	1673.73	210	351,483.00	12.17
TOTALS			1725	675,633.00	100.0

The estimated amount reported under Question 14-A is \$675,633.00. This is derived by multiplying the mid-point of each category times the number of responses in that category and adding them.

The estimated average amount of those who reported spending money is \$812.
The estimated average amount of all respondents is \$361.

B. To the best of your knowledge, how much have you spent during the last twelve months on accessories (snowmobile clothing, optional accessories, etc.)?

<u>Category</u>	<u>Amount</u>	<u>Mid-Point Amount</u>	<u>Number of Responses</u>	<u>Estimated Amount</u>	<u>Percent</u>
0	0.00	0.00	643	0.00	37.28
1	0.01 - 49.99	25.00	430	10,750.00	24.93
2	50.00 - 99.00	75.00	315	23,625.00	18.26
3	100.00 - 149.99	125.00	180	22,500.00	10.43
4	150.00 - 199.99	175.00	56	9,800.00	3.25
5	200.00 - 249.99	225.00	53	11,925.00	3.07
6	250.00 - 299.99	275.00	9	2,475.00	0.52
7	300.00 - 349.99	325.00	15	4,875.00	0.87
8	350.00 - 399.99	375.00	6	2,250.00	0.35
9	400.00 and above	439.06	18	7,903.00	1.04
TOTALS			1725	96,103.00	100.00

The estimated amount reported under Question 14-B is \$96,103.00. This is derived by multiplying the mid-point of each category times the number of responses in the category and adding them.

The estimated average amount of those who reported spending money is \$89.
The estimated average amount of all respondents is \$51.

C. To the best of your knowledge, how much have you spent during the past twelve months on repairs (parts, labor, spares, tools, etc.)?

<u>Category</u>	<u>Amount</u>	<u>Mid-Point Amount</u>	<u>Number Of Responses</u>	<u>Estimated Amount</u>	<u>Percent</u>
0	0.00	0.00	390	0.00	22.61
1	0.01 - 9.99	5.00	142	710.00	8.23
2	10.00 - 19.99	15.00	265	3,975.00	15.36
3	20.00 - 29.99	25.00	254	6,350.00	14.72
4	30.00 - 39.99	35.00	121	4,235.00	7.01
5	40.00 - 49.99	45.00	68	3,060.00	3.94
6	50.00 - 59.99	55.00	155	8,525.00	8.99
7	60.00 - 69.99	65.00	39	2,535.00	2.26
8	70.00 - 79.99	75.00	44	3,300.00	2.55
9	80.00 and above	171.73	247	42,417.00	14.32
TOTALS			1725	75,107.00	100.0

The estimated amount reported under Question 14-C is \$75,107.00. This is derived by multiplying the mid-point of each category times the number of responses in that category and adding them.

The estimated average amount of those who reported spending money is \$56.
The estimated average amount of all respondents is \$40.

D. To the best of your knowledge, how much have you spent during the past twelve months on gas and oil (snowmobile only)?

<u>Category</u>	<u>Amount</u>	<u>Mid-Point Amount</u>	<u>Number of Responses</u>	<u>Estimated Amount</u>	<u>Percent</u>
0	0.00	0.00	128	0.00	7.42
1	0.01 - 9.99	5.00	129	645.00	7.48
2	10.00 - 19.99	15.00	232	3,480.00	13.45
3	20.00 - 29.99	25.00	298	7,450.00	17.28
4	30.00 - 39.99	35.00	181	6,335.00	10.49
5	40.00 - 49.99	45.00	125	5,625.00	7.25
6	50.00 - 59.99	55.00	168	9,240.00	9.74
7	60.00 - 69.99	65.00	71	4,615.00	4.12
8	70.00 - 79.99	75.00	80	6,000.00	4.64
9	80.00 and above	147.42	313	46,142.00	18.14
TOTALS			1725	89,532.00	100.00

The estimated amount reported under Question 14-D is \$89,532.00. This is derived by multiplying the mid-point of each category times the number of responses in that category and adding them.

The estimated average amount of those who reported spending money is \$56.
The estimated average amount of all respondents is \$48.

E. To the best of your knowledge, how much have you spent during the past twelve months on trips where you trailered your snowmobile (lodging, food, gas and oil for auto, etc.)?

<u>Category</u>	<u>Amount</u>	<u>Mid-Point Amount</u>	<u>Number of Responses</u>	<u>Estimated Amount</u>	<u>Percent</u>
0	0.00	0.00	999	0.00	57.91
1	0.01 - 19.99	10.00	117	1,170.00	6.78
2	20.00 - 39.99	30.00	132	3,960.00	7.65
3	40.00 - 59.99	50.00	113	5,650.00	6.55
4	60.00 - 79.99	70.00	51	3,570.00	2.96
5	80.00 - 99.99	90.00	20	1,800.00	1.16
6	100.00 - 119.99	110.00	77	8,470.00	4.46
7	120.00 - 139.99	130.00	31	4,030.00	1.80
8	140.00 - 159.99	150.00	47	7,050.00	2.72
9	160.00 and above	357.44	138	49,326.00	8.00
TOTALS			1725	85,026.00	100.00

The estimated amount reported under Question 14-E is \$85,026.00. This is derived by multiplying the mid-point of each category times the number of responses in that category and adding them.

The estimated average amount of those who reported spending money is \$117.
The estimated average amount of all respondents is \$45.

F. To the best of your knowledge, how much have you spent during the past twelve months on outings where you did not have to trailer your snowmobile?

<u>Category</u>	<u>Amount</u>	<u>Mid-Point Amount</u>	<u>Number of Responses</u>	<u>Estimated Amount</u>	<u>Percent</u>
0	0.00	0.00	1248	0.00	72.35
1	0.01 - 19.99	10.00	136	1,360.00	7.88
2	20.00 - 39.99	30.00	124	3,720.00	7.19
3	40.00 - 59.99	50.00	97	4,850.00	5.62
4	60.00 - 79.99	70.00	21	1,470.00	1.22
5	80.00 - 99.99	90.00	2	180.00	0.12
6	100.00 - 119.99	110.00	38	4,180.00	2.20
7	120.00 - 139.99	130.00	4	520.00	0.23
8	140.00 - 159.99	150.00	18	2,700.00	1.04
9	160.00 and above	379.22	37	14,031.00	2.14
TOTALS			1725	33,011.00	100.00

The estimated amount reported under Question 14-F is \$33,011.00. This is derived by multiplying the mid-point of each category times the number of responses in that category and adding them.

The estimated average amount of those who reported spending money is \$69.
The estimated average amount of all respondents is \$18.

G. To the best of your knowledge, how much have you spent during the past twelve months on insurance (snowmobile, trailer, etc.)?

<u>Category</u>	<u>Amount</u>	<u>Mid-Point Amount</u>	<u>Number of Responses</u>	<u>Estimated Amount</u>	<u>Percent</u>
0	0.00	0.00	913	0.00	52.93
1	0.01 - 19.99	10.00	94	940.00	5.45
2	20.00 - 39.99	30.00	298	8,940.00	17.28
3	40.00 - 59.99	50.00	200	10,000.00	11.59
4	60.00 - 79.99	70.00	112	7,840.00	6.49
5	80.00 - 99.99	90.00	38	3,420.00	2.20
6	100.00 - 119.99	110.00	37	4,070.00	2.14
7	120.00 - 139.99	130.00	13	1,690.00	0.75
8	140.00 - 159.99	150.00	7	1,050.00	0.41
9	160.00 and above	502.86	13	6,537.00	0.75
TOTALS			1725	44,487.00	100.00

The estimated amount reported under Question 14-G is \$44,487.00. This is derived by multiplying the mid-point of each category times the number of responses in that category and adding them.

The estimated average amount of those who reported spending money is \$55.
The estimated average amount of all respondents is \$24.

TABLE 2-F

Summary of Question 14 and Projection of Minnesota Totals

<u>Classification</u>	<u>Reported Total</u>	<u>Projected State Total *</u>
Major equipment	675,633	98,642,000
Accessories	96,103	14,031,000
Repairs	75,107	10,966,000
Gas and Oil	89,532	13,072,000
Trips	85,026	12,414,000
Outings	33,011	4,820,000
Insurance	44,487	6,495,000
TOTAL	1,098,899	160,440,000

* The Reported Total times the scaling factor of 146.

QUESTION 19: Do you belong to a snowmobile club or sportsman's club involved in snowmobiling?

<u>Response</u>	<u>Number of Respondents</u>	<u>Relative Frequency (Percent)</u>
Yes	353	22.2
No	1238	77.7
Missing	2	0.1
TOTAL (SPSS)	1593	100.0

Reported Total of 353 times scaling factor of 157 is 55,420, the projected state total.

QUESTION 20: Please write in the ages of the members of your family who snowmobiled, in the spaces at the right.

A. Males

<u>Age</u>	<u>1st Male</u>	<u>2nd Male</u>	<u>3rd Male</u>	<u>4th Male</u>	<u>5th Male</u>
1-9	42	168	102	44	14
10-19	162	544	247	73	18
20-29	252	130	48	20	6
30-39	442	33	24	11	2
40-49	365	28	25	13	5
50-59	196	19	12	5	2
60-69	49	2	2	3	
70-79	6	2			
80-89	0	0			
90-99	0	1			
Average (SPSS)	36.0	16.9	17.3	18.4	18.3
Median	36.4	15.2	14.3	13.5	12.1

Average age for all males reported is 25.8.

B. Females

<u>Age</u>	<u>1st Female</u>	<u>2nd Female</u>	<u>3rd Female</u>	<u>4th Female</u>	<u>5th Female</u>
1-9	34	141	73	26	9
10-19	162	418	164	45	8
20-29	273	86	32	9	2
30-39	445	34	15	4	1
40-49	262	24	9	6	3
50-59	114	9	1		
60-69	21	2			
70-79	1				
Average (SPSS)	33.4	16.4	14.9	14.9	16.6
Median	33.6	14.6	12.8	12.1	13.0

Average age for all females reported is 25.3.

FAMILY SIZE

<u>Number in Family</u>	<u>Number Who Reported</u>
0	56
1	141
2	370
3	209
4	357
5	257
6	122
7	51
8	20
9	5
10	3
11	2
TOTAL (SPSS)	1593

Average family size reported is 3.5.

QUESTION 21: Generally speaking, is snowmobiling a family or personal activity?

<u>Response</u>	<u>Number of Respondents</u>	<u>Relative Frequency (Percent)</u>
Family	1215	76.3
Personal	378	23.7
TOTAL (SPSS)	1593	100.0

QUESTION 22: Do you live within the limits of a city or town that has a population of 2,500 or more? If answered No, do you live on a farm?

A.

<u>Response</u>	<u>Number of Respondents</u>	<u>Relative Frequency (Percent)</u>
Yes	724	45.4
No	868	54.5
Missing	1	0.1
TOTAL (SPSS)	1593	100.0

B. Do you live on a farm?

<u>Response</u>	<u>Number of Respondents</u>	<u>Relative Frequency (Percent)</u>
Yes	389	44.8
No	479	55.2
Missing	0	0.0
TOTAL (SPSS)	868	100.0

TABLE 2-H

Summary of Responses to Question 22

<u>Category</u>	<u>Number of Respondents</u>	<u>Relative Frequency (Percent)</u>
Town over 2,500	724	45.5
Town under 2,500	479	30.1
Farm	389	24.4
Missing	1	0.0
TOTAL	1593	100.0

QUESTION 23: What is your occupation?

<u>Occupation</u>	<u>Number of Respondents</u>	<u>Relative Frequency (Percent)</u>
Professional	237	14.9
Clerical	23	1.4
Farmer or Farm Laborer	179	11.2
Student	37	2.3
Managerial or Owner	248	15.6
Skilled Labor	422	26.5
Military or Law	22	1.4
Sales	110	6.9
Unskilled Labor	39	2.4
Retired	41	2.6
Other (Includes Housewife)	209	13.1
Missing Data	26	1.6
TOTAL (SPSS)	1593	100.0

QUESTION 24: Please check the box that fits your family income.

<u>Income</u>	<u>Number of Respondents</u>	<u>Relative Frequency (Percent)</u>
Under \$5,000	53	3.3
\$5,000 - \$6,999	62	3.9
\$7,000 - \$9,999	199	12.5
\$10,000 - \$14,999	595	37.4
\$15,000 - \$24,999	460	28.9
Over \$25,000	143	9.0
Missing Data	81	5.1
TOTAL (SPSS)	1593	100.0

CHAPTER 3

SNOWMOBILER PREFERENCES

QUESTIONS 15, 16, 17, 18, 25

SNOWMOBILER PREFERENCES

This third chapter of the report presents responses to questions which are intended to identify the preferences of Minnesota Snowmobilers. The specific questions involved are 15, 16, 17, 18 and 25.

Question 15 asks the respondent to apply one of three levels of desirability to each of eleven different snowmobiling use areas. Almost all of the use areas, as presented, are identified by a significant majority of the respondents as Desirable. The most notable exception was to travel on the shoulders of plowed roads which 54% of the respondents identified as undesirable. Use of a trail which goes to a point of scenic interest and to travel near my home or cabin are each identified by more than 75% as Desirable. In addition, over 80% of the respondents felt it was Desirable - to travel with my friends and/or members of my snowmobile club.

Question 16 asked the respondents to indicate how strict they would prefer snowmobile regulations. The respondent was provided five levels of severity for eleven different categories. Regulations in general elicited responses from more than 71% to leave the Same. Use of frozen lakes, required safety equipment, and enforcement each received more than 60% of the responses to leave the Same. When viewing the question as a whole, respondents appear to prefer that regulations stay the Same, with a slight tendency towards Stricter.

Preferences regarding the use of snowmobile registration fees were sought in Question 17. The respondents were asked to indicate one of five levels of importance to eight areas for the potential use of fees. Youth Snowmobile safety training was identified by 84% of the respondents as Important area to utilize fees, while 60% of the respondents identified Adult Snowmobile safety training as Important. Three additional areas were each identified by more than 75% of the respondents as areas of Importance for the utilization of fees; marking present trails, establishing new trails, and distribution of maps of snowmobiling areas.

In Question 18, the snowmobiler was asked to indicate his preference for facilities which might be provided by the state. One of five levels of desirability was to be assigned to each of six possibilities. The most Desirable feature, as indicated by 84% of the respondents, was trash barrels at all entrances to trails. The state, local units of government, and snowmobile clubs would seem to have another opportunity for more environmental improvement by capitalizing on this preference. Parking areas at the entrance to each trail was deemed Desirable by 77% of the respondents. Emergency telephones and toilets along trails were next identified as Desirable, while more than 42% of the respondents felt an East-West trail across the northern portion of the Lakes States was Desirable.

Comments were received from over 25% of the respondents and were classified in one of six categories. In terms of specific comments, trails received 20% of the total. Representative examples of all categories are presented here in Chapter 3.

Question 15

When snowmobiling, I find it: 1) desirable; 2) no opinion; 3) undesirable; to:

A. Use a cross country trail which returns to the same point at which it started.

<u>Response</u>	<u>Number of Respondents</u>	<u>Relative Frequency (Percent)</u>
Desirable	1080	67.8
No opinion	415	26.1
Undesirable	98	6.2
TOTAL (SPSS)	1593	100.0

B. Use a trail which goes to a point of scenic interest.

Desirable	1208	75.8
No opinion	360	22.6
Undesirable	25	1.6

C. Use a trail which connects areas or towns.

Desirable	1134	71.2
No opinion	386	24.2
Undesirable	73	4.6

D. To go on a marked trail.

Desirable	1084	68.0
No opinion	426	26.7
Undesirable	83	5.2

E. To go on a groomed trail.

Desirable	984	61.8
No opinion	515	32.3
Undesirable	94	5.9

F. To use large open areas.

Desirable	1001	62.8
No opinion	404	25.4
Undesirable	188	11.8

G. To travel on unplowed roads.

Desirable	1008	63.3
No opinion	402	25.2
Undesirable	183	11.5

H.	To travel on the shoulders of plowed roads.		
	Desirable	359	22.5
	No opinion	371	23.3
	Undesirable	863	54.2
I.	To travel near my home or cabin.		
	Desirable	1216	76.3
	No opinion	292	18.3
	Undesirable	85	5.3
J.	To travel in a more remote area.		
	Desirable	1032	64.8
	No opinion	415	26.1
	Undesirable	146	9.2
K.	To travel with my friends and/or members of my snowmobile club.		
	Desirable	1293	81.2
	No opinion	248	15.6
	Undesirable	52	3.3
	TOTAL (SPSS)	1593	100.0

TABLE 3-A

A ranking of the categories in Question 15
by use of the average numerical response.

K	With friends or club	1.221	Most desirable
B	To point of scenic interest	1.257	
I	Near home	1.290	
C	On connecting trails	1.334	
D	On marked trails	1.372	
A	On looped trails	1.384	
E	On groomed trails	1.441	
J	In remote area	1.444	
G	On unplowed roads	1.482	
F	In large open areas	1.490	
H	On shoulders of plowed roads	2.316	Least desirable

NOTE: An average of 2 would be "no opinion" while an average of greater than 2 would tend to be "Undesirable".

Question 16

Please express how you would like snowmobile regulations. Use the following key: 1) much stricter; 2) stricter; 3) same; 4) less strict; 5) much less strict.

A. Snowmobile regulations in general.

<u>Response</u>	<u>Number of Responses</u>	<u>Relative Frequency (Percent)</u>	<u>Number of Responses</u>	<u>Relative Frequency (Percent)</u>
Much stricter	63	4.0		
Stricter	183	11.5	246	15.5
The same	1132	71.1	1132	71.1
Less strict	178	11.2		
Much less strict	37	2.3	215	13.5

B. Regulations concerning the youth in the 12 through 15 age group.

Much stricter	167	10.5		
Stricter	440	27.6	607	38.1
The same	870	54.6	870	54.6
Less strict	98	6.2		
Much less strict	18	1.1	116	7.3

C. Noise levels created by snowmobiles.

Much stricter	203	12.7		
Stricter	466	29.3	669	42.0
The same	773	48.5	773	48.5
Less strict	117	7.3		
Much less strict	34	2.1	151	9.4

D. The use of snowmobiles on frozen lakes.

Much stricter	133	8.3		
Stricter	237	14.9	370	23.2
The same	1000	62.8	1000	62.8
Less strict	137	8.6		
Much less strict	86	5.4	223	14.0

E. The chasing of wild game.

Much stricter	1085	68.1		
Stricter	229	14.4	1314	82.5
The same	214	13.4	214	13.4
Less strict	35	2.2		
Much less strict	30	1.9	65	4.1

F. The use of snowmobiles as transportation during deer hunting.

Much stricter	347	21.8		
Stricter	208	13.1	555	34.9
The same	662	41.6	662	41.6
Less strict	255	16.0		
Much less strict	121	7.6	376	23.6

G. Operation of snowmobiles in residential areas.

Much stricter	268	16.8		
Stricter	310	19.5	578	36.3
The same	750	47.1	750	47.1
Less strict	210	13.2		
Much less strict	55	3.5	265	16.7

H. Required safety equipment.

Much stricter	147	9.2		
Stricter	390	24.5	537	33.7
The same	969	60.8	969	60.8
Less strict	58	3.6		
Much less strict	29	1.8	87	5.4

I. The maximum horsepower allowed for general use of snowmobiles.

Much stricter	202	12.7		
Stricter	340	21.3	542	34.0
The same	822	51.6	822	51.6
Less strict	132	8.3		
Much less strict	97	6.1	229	14.4

J. Enforcement of present regulations.				
Much stricter	186	11.7		
Stricter	347	21.8	533	33.5
The same	962	60.4	962	60.4
Less strict	72	4.5		
Much less strict	26	1.6	98	6.1
K. Speed limits.				
Much stricter	145	9.1		
Stricter	291	18.3	436	27.4
The same	897	56.3	897	56.3
Less strict	171	10.7		
Much less strict	89	5.6	260	16.3
TOTAL (SPSS)	1593	100.0	1593	100.0

TABLE 3-B

A ranking of categories in Question 17
by the use of the average numerical response.

E	Chasing wild game	1.554	Most Strict
C	Noise levels	2.569	
B	12-15 year olds	2.598	
J	Enforcement	2.626	
H	Safety equipment	2.643	
G	Residential areas	2.670	
I	Maximum horsepower	2.738	
F	During deer hunting	2.746	
K	Speed limits	2.854	
D	On frozen lakes	2.878	
A	In general	2.964	Least Strict

NOTE: An average of 3 would be "leave the same" and an average of greater than 3 would tend to be "less strict".

Question 17

The following are possible uses of snowmobile registration fees now collected by the State of Minnesota. Please indicate which you think are most important by using the following key:

1) very important; 2) important; 3) no opinion; 4) not important; 5) don't want.

A. Grooming present trails.

<u>Response</u>	<u>Number of Responses</u>	<u>Relative Frequency (Percent)</u>	<u>Number of Responses</u>	<u>Relative Frequency (Percent)</u>
Very important	418	26.2		
Important	656	41.2	1074	67.4
No opinion	345	21.7	345	21.7
Not important	127	8.0		
Don't want	47	3.0	174	11.0
TOTAL (SPSS)	1593	100.0	1593	100.0

B. Marking present trails.

Very important	450	28.2		
Important	785	49.3	1235	77.5
No opinion	255	16.0	255	16.0
Not important	76	4.8		
Don't want	27	1.7	103	6.5

C. Establishing new trails.

Very important	686	43.1		
Important	569	35.7	1255	78.8
No opinion	220	13.8	220	13.8
Not important	70	4.4		
Don't want	48	3.0	118	7.4

D. Youth snowmobile safety training.

Very important	712	44.7		
Important	638	40.1	1350	84.8
No opinion	191	12.0	191	12.0
Not important	38	2.4		
Don't want	14	0.9	52	3.3

E. Adult snowmobile safety training.

Very important	377	23.7		
Important	582	36.5	959	60.2
No opinion	414	26.0	414	26.0
Not important	165	10.4		
Don't want	55	3.5	220	13.9

F. Research.

Very important	243	15.3		
Important	540	33.9	783	49.2
No opinion	547	34.3	547	34.3
Not important	193	12.1		
Don't want	70	4.4	263	16.5

G. Law enforcement costs.

Very important	165	10.4		
Important	599	37.6	764	48.0
No opinion	544	34.1	544	34.1
Not important	165	10.4		
Don't want	120	7.5	285	17.9

H. Distribution of maps of snowmobiling areas.

Very important	473	29.7		
Important	731	45.9	1204	75.6
No opinion	260	16.3	260	16.3
Not important	100	6.3		
Don't want	29	1.8	129	8.1

TOTAL (SPSS)	1593	100.0	1593	100.0
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TABLE 3-C

A ranking of categories in Question 17 by the use of the average numerical response

D	Youth safety training	1.747	Most important
C	Establish new trails	1.886	
B	Mark present trails	2.024	
H	Distribute maps	2.045	
A	Groom present trails	2.202	
E	Adult safety training	2.334	
F	Research	2.565	
G	Law Enforcement	2.671	Least important

NOTE: An average of 3 would be "no opinion" and an average of greater than 3 would tend to be "undesirable".

Question 18

The following are possible facilities which might be provided by the State. Please give us your opinions as to which are desirable. Use the following key: 1) very desirable; 2) desirable; 3) no opinion; 4) not desirable; 5) don't want.

A. Parking areas at the entrance to each trail.

<u>Response</u>	<u>Number of Responses</u>	<u>Relative Frequency (Percent)</u>	<u>Number of Responses</u>	<u>Relative Frequency (Percent)</u>
Very desirable	493	30.9		
Desirable	741	46.5	1234	77.4
No opinion	274	17.2	274	17.2
Not desirable	50	3.1		
Don't want	35	2.2	85	5.3

B. Toilets along trails.

Very desirable	341	21.4		
Desirable	647	40.6	988	62.0
No opinion	364	22.8	364	22.8
Not desirable	157	9.9		
Don't want	84	5.3	241	15.2

C. Winter camping areas established along trails.

Very desirable	195	12.2		
Desirable	545	34.2	740	46.4
No opinion	550	34.5	550	34.5
Not desirable	199	12.5		
Don't want	104	6.5	303	19.0

D. Three sided rest areas provided along trails.

Very desirable	174	10.9		
Desirable	582	36.5	756	47.4
No opinion	584	36.7	584	36.7
Not desirable	165	10.4		
Don't want	88	5.5	253	15.9

E. Trash barrels at all entrances to the trails.

Very desirable	670	42.1		
Desirable	667	41.9	1337	84.0
No opinion	199	12.5	199	12.5
Not desirable	33	2.1		
Don't want	24	1.5	57	3.6

F. Emergency telephones at trail entrances.

Very desirable	442	27.7		
Desirable	585	36.7	1027	64.4
No opinion	398	25.0	398	25.0
Not desirable	97	6.1		
Don't want	71	4.5	168	10.6

G. An East-West snowmobile trail across the northern portion of the Great Lakes States.

Very desirable	295	18.5		
Desirable	385	24.2	680	42.7
No opinion	686	43.1	686	43.1
Not desirable	117	7.3		
Don't want	110	6.9	227	14.2

TOTAL (SPSS)	1593	100.0	1593	100.0
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TABLE 3-D

A ranking of categories in Question 18 by the use of the average numerical response

E	Trash barrels	1.791	Most desirable
A	Parking areas	1.991	
F	Emergency telephones	2.228	
B	Toilets	2.370	
G	An East-West trail	2.599	
D	Three sided rest areas	2.630	
C	Camping areas	2.669	Least Desirable

Note: An average of 3 would be "no opinion" and an average of greater than 3 would tend to be "undesirable".

QUESTION 25: Are there any additional comments you would like to make?

More than 25% of all respondents included one or more comments. Each of the comments was read and then recorded in either paraphrased, condensed, or verbatim form, and at the same time was classified into one of six categories. The categories are: Trails, Regulation, Safety, Money (from registration fees and gasoline taxes), Environment, and General. A summary of the distribution of the comments follows on Table 3-E.

While the categories are used to organize this summary, the categories themselves are interrelated and should not necessarily be considered independently of each other. In each category, the comments are presented in order of their relative frequency of occurrence.

TABLE 3-E

TABULATION OF COMMENTS BY CATEGORY

<u>Category</u>	<u>Number of Comments</u>	<u>Per Cent Of Total</u>
Trails	221	20.0
Regulations	182	16.4
Safety	187	17.0
Money (Registration Fees & Gas Taxes)	79	7.2
Environment	65	5.9
General	<u>369</u>	<u>33.5</u>
Total	1104	100.0%

TRAILS

Some 221 respondents made comments relative to trails. These were divided into four categories: Comments on grooming, marking, and maps; requests for more trails; remarks on use of private property, and comments on trail facilities.

The most frequent comment (94) was relative to trails and to the development of trails in a given area. Some of the typical comments are:

It would be nice if each county in Minnesota had a connecting trail.

More trails are needed in the Twin Cities area.

Minnesota should acquire and develop land for multi-purpose trails

The second most frequent comment (81) was a grooming, marking, and availability of maps. Typical comments. . .

I would like to know where to get maps of groomed trails.

I appreciate the marked and groomed trails and the things the state has done to improve snowmobiling.

Groomed trails are very good in helping to reduce accidents.

The third most frequent comment (26) was about the use of private property. The most frequent recommendation was that snowmobiles should stay in designated areas on the defined trails.

Twenty comments were relative to various facilities along trails. These included requests for telephones, toilets, trail shelters, etc. . .

REGULATIONS

One hundred eight-two comments were classified in this category. The most frequent comment (66) referred to enforcement of regulations in general. There was no specific trend for more or less. Several comments also favored state-wide regulations, and elimination of local and county ordinances regarding snowmobiling.

The second most frequent comment (41) was on use of unplowed roads, road shoulders or ditches, and access to trails from towns. The majority were in favor of relaxing or changing existing laws. Some of the comments are . . .

Should be legal to use shoulder of road.

I would like to see reasonable and acceptable regulations for riding on streets to and from my house to a snowmobile area.

There should be more enforcement on snowmobiling on roads.

Twenty-six respondents commented on specific laws they wanted to change. Most comments were on small children operating snowmobiles. Other areas of concern included were; wires across trails, lake speed limits, license plates, third party liability, and snowmobile stealing.

Twenty-two comments were on the topic of snowmobilers who drink. ". . . stricter law enforcement of drinking while driving. . ." typifies the attitude of those surveyed. All were in favor of regulating the drunk driver.

The topic of Access and Trespass drew nineteen comments. It was generally felt snowmobilers should respect the property of others and not enter posted areas.

Eight comments were on night driving, generally suggesting a reasonable curfew.

SAFETY

There were 189 respondents who commented on safety, the image of snowmobilers, the quality of machines and accessories, and the need of training courses. Although on twenty-seven people commented about the image of the snowmobiler, all agreed it should be improved.

". . . In our area, the present image of the snowmobiler is the fence cutter, field plantings wrecker, and gas waster. . ."

Comments of the greatest frequency were those respondents who commented of the quality of machines and accessories. Ninety-four comments were received on this topic. The largest group (35) were those concerned about noise. Most merely said . . . "Noise in the biggest problem. . ." However, several stated snowmobiles were not noisier than motorcycles, and

wanted to know why there were no efforts to quiet motorcycles. Eighteen reflected displeasure about the repair service, warranties, or machines in general.

Better guarantee from the manufacturer.

Machines should be made better.

The eighteen who commented on horsepower, each suggested there be a limit. Eleven stated helmets should be mandatory and three said they should not. Other comments were on ignitions, lower prices, etc. . . .

The second most frequent area of comment (34) was on speed and racing. There was no specific trend indicated, however, several wanted areas set aside for speeding (or racing) with no control so they could let off steam.

Twenty-six comments were on training courses. Most favored continuation on a mandatory basis for children, and some recommended mandatory courses for all. Only two stated they were not beneficial.

Seven comments were received on accidents. Most told of accidents they or members of their family experienced. Others were pleas not to get in accidents.

MONEY (from Registration Fees and Gasoline Taxes)

Comments were received from seventy-nine respondents on this topic. Their comments were divided into three groups: those who wanted more money spent on trails and trail development, those who didn't know where their money was being spent, and those who wanted money returned to their clubs to be spent on trails.

The most frequent comment (47) was from those who wanted money spent on trails and trail development. Typical of their comments:

Use registration money on new trails for snowmobiles.

With all our registration money, why aren't our trails groomed?

The second most frequent comment (20) was from those who didn't know how their registration money was being spent. Their comments are summarized by this one . . .

"A lot of money is being paid for registration, why don't we get to use it?"

Twelve comments were also received from club members who wanted registration fees returned to their clubs to make, mark, and groom trails. One club member reported:

"Our club has built 110 miles of trail over private land with leases secured from property owners. The trail construction and maintenance is funded by the Department of Natural Resources under the Grants and Aid Program."

ENVIRONMENT

Sixty-five respondents commented on environmental concerns. Over half (37) of these comments concerned themselves with wildlife and destruction of vegetation, fourteen (14) on the Boundary Waters Canoe Area, eight on litter, and six on other environmental concerns.

While most frequent comment referred to wildlife and destruction of vegetation, one wanted to hunt fox from a snowmobile, two wanted to use it for access to hunting areas, and two said it did not damage the vegetation. The rest favored prosecution of those caught hunting from snowmobiles. Typical comments were . . .

Should be stiff fines for any harassment of wildlife.

Anyone who claims to be a hunter should have the decency to adopt the same mode of locomotion (legs) as the animal.

Fourteen comments were received about snowmobiling in the Boundary Waters Canoe Area. Twelve said they should be able to snowmobile there, only two said definitely no.

Allow more travel in the Boundary Waters Canoe Area. Snowmobiles produce much less pollution than canoeists who use it in the summer.

Eight stated litter was a severe problem.

GENERAL

The greatest number (369) of respondents made comments of a general nature. These were

grouped as follows: comments on the survey, enthusiasm for snowmobiling, tourism, ice fishing and why they snowmobiled less this past winter.

The comment of greatest frequency (100) told of the person's enthusiasm for snowmobiling.

Typical comments were . . .

I've never enjoyed Minnesota winters until I took up snowmobiling.

I think snowmobiling is the greatest thing to hit this part of the country.

The whole family enjoys it.

The second most frequent comment were on the survey itself. Some comments were favorable, and some were not, but were about equally divided. Some of their comments were . . .

Thank you for making an effort to help snowmobilers.

We never kept track of this so we answered as best as we could.

Send me no more questionnaires.

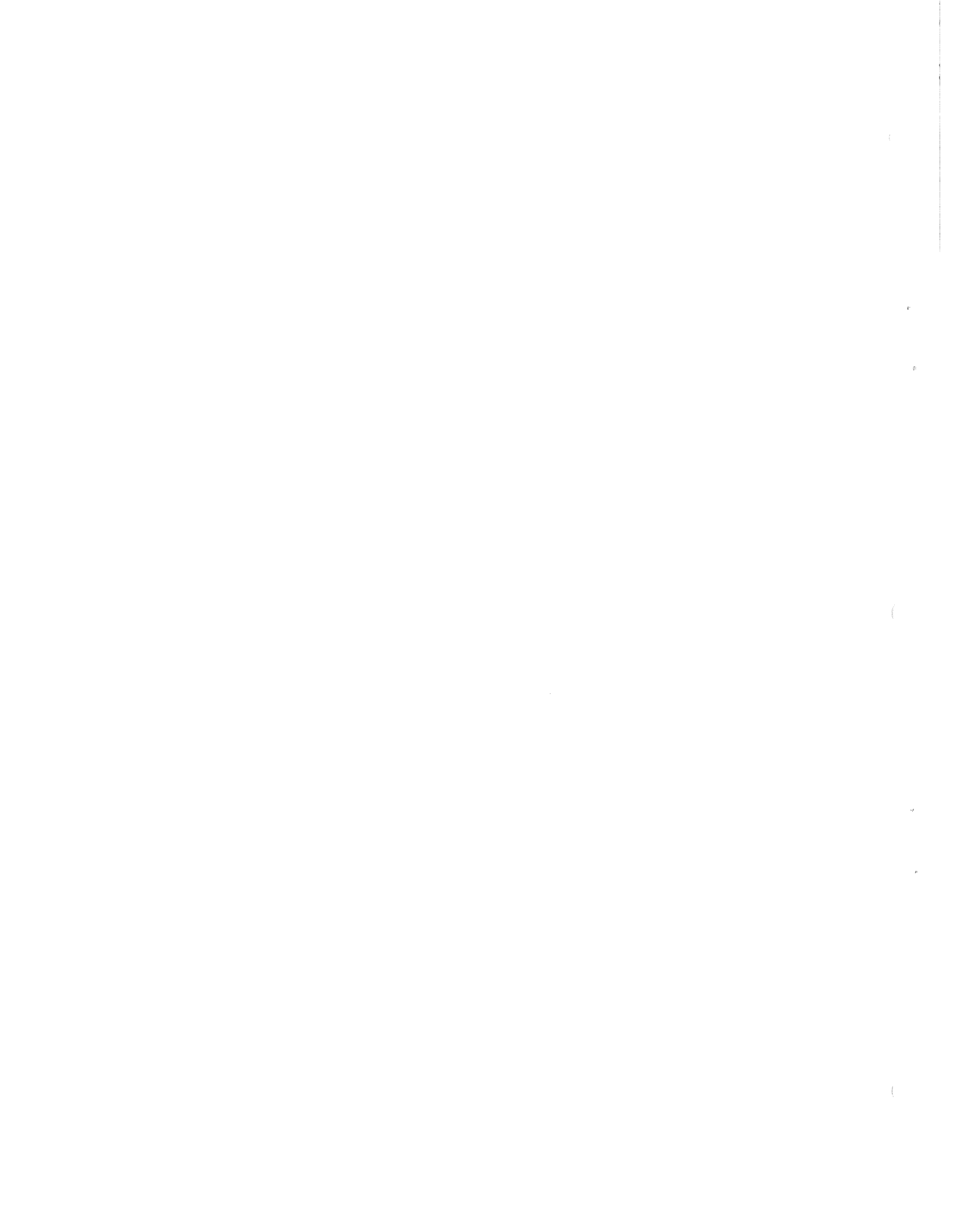
The third most frequent response (52) was from people who did not use their snowmobile as much this year (other than lack of snow and gas). Some reasons given were disillusionment, personal or family illness, moved, etc. . .

Forty-four people reflected on the theme . . . "We would have done more snowmobiling if there would have been more snow. . ." This reflects the fact that many areas received below normal snowfall last season.

Gasoline and the energy shortage were given as a specific reason for less snowmobiling by thirty (30) respondents.

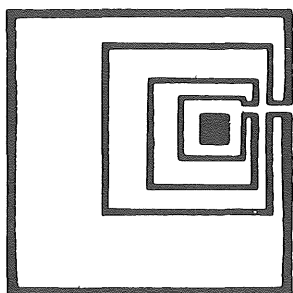
Twenty-nine (29) respondents commented on tourism. Their comments varied from trips taken, to lack of publicity of snow conditions.

Twenty-four (24) comments were received on ice fishing. Most said they bought their snowmobile primarily for ice fishing or to move their ice shanties around. Others complained that snowmobiles "buzzed around them" while they fished.



APPENDIX

- A. Questionnaire
- B. Bibliography
- C. Maps
Administrative Regions



Gogebic Community College

Ironwood, Michigan 49938

Phone 906-932-4231

Dear Minnesota Snowmobiler:

Another Snowmobile Season is over and we should be making plans for the coming season and seasons ahead. You have been selected from a sampling of Minnesota snowmobile registrants to help us determine snowmobile use patterns, snowmobiler needs, as well as snowmobile related preferences. We have received an Upper Great Lakes Regional Commission Grant and the cooperation of the appropriate state's Department of Natural Resources to study the 1973-74 snowmobile owners use patterns in order to obtain up-to-date information relative to all facets of this exciting winter activity.

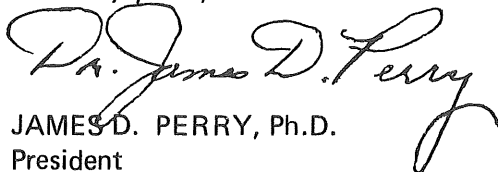
Your answers are extremely important to the accuracy of this survey. It is our intent, through this study, to provide more impetus to your state agencies involved in the administration of the state's snowmobiling program. We hope you will take a few minutes right now to respond to this questionnaire.

Since we are sending out only a random sampling, every response is important to us. If you own more than one snowmobile, please limit your response to one machine. Please complete the questionnaire even though you may have in some way disposed of or did not use your machine this year. In addition we do encourage that you add your comments, suggestions, complaints, etc., in the space provided on the last page. After you have completed this form, place it in the postage paid return envelope that is enclosed for your convenience and mail it immediately.

The data obtained from this research will become a part of a statistical report and there is no need for you to sign the questionnaire. Also a synopsis survey will be made available to all snowmobile and other publications for their printing and your review.

Thank you for your assistance.

Sincerely yours,


JAMES D. PERRY, Ph.D.
President

Enclosure

SNOWMOBILE RESEARCH - GOGEBIC COMMUNITY COLLEGE - IRONWOOD MICHIGAN 49938

1973-74 MINNESOTA SNOWMOBILE SURVEY

- In which county is your permanent home? _____
- Do you presently own a snowmobile Yes No If yes, please enter below its make, horsepower rating and registration number. If no, you have finished with the questionnaire. Please return it in the enclosed envelope.
 Make _____ Horsepower _____ Registration _____
 Was this machine purchased New Used
- Did you or your family operate that snowmobile during the past winter season? Yes No If yes, please answer the questions below, only for the snowmobile whose registration appears on the cover letter. If no, please return the questionnaire in the enclosed envelope.
- A USER DAY IS ANY DAY THAT YOU HAVE SPENT ALL OR IN PART IN SNOWMOBILING: IF YOU SPENT 15 MINUTES SNOWMOBILING FRIDAY AND 8 HOURS SNOWMOBILING SATURDAY, THAT WOULD BE COUNTED AS TWO USER DAYS.

WHERE DID YOU AND/OR YOUR FAMILY USE YOUR SNOWMOBILE?		HOW MANY DAYS DID YOU AND/OR YOUR FAMILY USE YOUR SNOWMOBILE AT EACH LOCATION?			
Location Number	Name of county or nearest town or city	1973	1974		
		November & December	January	February	March & April
Example	MARQUETTE	2	6	5	2
1					
2					
3					
4					
5					
6					
7					

- PLEASE INDICATE THE NUMBER OF DAYS YOU AND/OR YOUR FAMILY SPENT ON EACH OF THE FOLLOWING TYPES OF LAND (The total days reported in question 5 must equal the total days reported in question 4)

Land Type	User-days	Land Type	User-days
Own, relatives, or friends property	_____	Corporate Land	_____
Metro and City Parks, Golf Courses, School Property, etc.	_____	State Parks and Game and Recreation Areas	_____
State and National Forests	_____	Outside Minnesota	_____
Other (describe)	_____		

- New: For the days reported in question 5 above, what were you doing? Please indicate total number of days spent on each of the following activities.

Activity	User-days	Activity	User-days
Trail Riding	_____	Racing	_____
Hunting, Fishing, or Trapping	_____	Other (describe)	_____

- How many days did you and/or your family snowmobile after dark? _____
- How many days of snowmobiling were done on groomed trails? _____
- How many days of snowmobiling were done on marked trails? _____
- Has the gasoline shortage caused you to spend any less time this year as compared to last year in snowmobiling? Yes No
 If yes, how many days less? _____

11. A. Did you or anyone in your family make any overnight trips this season principally for snowmobiling? Yes No
 B. If yes, how many trips were taken? _____
 C. On those overnight trips, how many nights did you stay in the following types of accommodation?
 Private home/cabin _____ Camper _____
 Motel/Hotel _____ Hunting Lodge _____
 Mobile home/trailer _____ Other (describe) _____

12. In areas where you were snowmobiling, would you say service facilities were adequate in terms of availability and quality?
 Yes No Don't know
 If no, why not? _____

13. Was your snowmobile used by children (your own or others) in the age group of 12 through 15 years during the last year?
 Yes No If yes, how many children _____
 How many of those children had the Snowmobile Safety Training Course? _____

14. TO THE BEST OF YOUR KNOWLEDGE, HOW MUCH HAVE YOU SPENT DURING THE LAST 12 MONTHS ON EACH OF THE FOLLOWING?
 A. MAJOR EQUIPMENT (snowmobiles, trailers, sleds, and associated finance charges) _____
 B. ACCESSORIES (snowmobile clothing, optional equipment, etc.) _____
 C. REPAIRS (parts, labor, spares, tools, etc.) _____
 D. GAS & OIL (snowmobile only) _____
 E. TRIPS WHERE YOU TRAILORED YOUR SNOWMOBILE (lodging, food, gas & oil for auto, etc.) _____
 F. OUTINGS WHERE YOU DID NOT TRAILER YOUR SNOWMOBILE _____
 G. INSURANCE (snowmobile, trailer, etc.) _____

15. When snowmobiling, I find it: 1 desirable, 2 no opinion, 3 undesirable to:
 _____ Use a cross country trail which returns to the same point at which it started.
 _____ Use a trail which goes to a point of scenic interest.
 _____ Use a trail which connects areas or towns
 _____ To go on a marked trail.
 _____ To go on a groomed trail.
 _____ To use large open areas.
 _____ To travel on unplowed roads.
 _____ To travel on the shoulders of plowed roads.
 _____ To travel near my home or cabin.
 _____ To travel in a more remote area.
 _____ To travel with friends and/or members of my snowmobile club.

16. Please express how you would like snowmobile regulations. Use the following key:
 1 much stricter, 2 stricter, 3 same, 4 less strict, 5 much less strict
 A _____ Snowmobile regulations in general
 B _____ Regulations concerning youth in the 12 through 15 age group.
 C _____ Noise levels created by snowmobiles
 D _____ The use of snowmobiles on frozen lakes
 E _____ The chasing of wild game
 F _____ The use of snowmobiles as transportation during Deer Hunting
 G _____ Operation of snowmobiles in residential areas
 H _____ Required safety equipment
 I _____ The maximum horsepower allowed for general use snowmobiles
 J _____ Enforcement of present regulations
 K _____ Speed limits

17. The following are possible uses of snowmobile registration fees now collected by the state of Minnesota.
 Please indicate which you think are most important by using the following key:
 1 very important 2 important 3 no opinion 4 not important 5 don't want
 A _____ Grooming present trails
 B _____ Marking present trails
 C _____ Establishing new trails
 D _____ Youth snowmobile safety training
 E _____ Adult snowmobile safety training
 F _____ Research
 G _____ Law enforcement costs
 H _____ Distribution of maps of snowmobiling areas

18. The following are possible facilities which might be provided by the State. Please give us your opinions as to which are desirable. Use the following key:

1 very desirable 2 desirable 3 no opinion 4 not desirable 5 don't want

- A _____ Parking areas at the entrance to each trail.
- B _____ Toilets along the trails.
- C _____ Winter camping areas established along the trails.
- D _____ Three sided rest areas provided along the trails.
- E _____ Trash barrels at all entrances to the trails.
- F _____ Emergency telephones installed at all entrances to the trails.
- G _____ An East-West snowmobile trail across the Northern portion of the Lakes States.

19. Do you belong to a Snowmobile Club or Sportsman's Club involved in snowmobiling? Yes No

IN ORDER TO FORECAST THE FUTURE DEMAND FOR SNOWMOBILING IN MINNESOTA, IT IS NECESSARY FOR US TO BE ABLE TO TIE IN FAMILY CHARACTERISTICS WITH SNOWMOBILE USE PATTERNS. PLEASE ASSIST US BY ANSWERING THE FOLLOWING QUESTIONS.

20. Please write in the ages of the members of your family who snowmobiled in the spaces to the right

AGES-MALES					AGES-FEMALES				

21. Generally speaking, is snowmobiling a family or personal activity? Family Personal
22. Do you live within the limits of a city or town that has a population of 2500 or more? Yes No
 If you answered no, do you live on a farm? Yes No

23. What is your occupation? (Please check one)

- | | | |
|------------------------------|-----------------------------------|-----------------------|
| _____ Professional | _____ Managerial or Owner | _____ Sales |
| _____ Clerical | _____ Skilled Labor | _____ Unskilled Labor |
| _____ Farmer or Farm Laborer | _____ Military or Law Enforcement | _____ Retired |
| _____ Student | _____ Other (describe) _____ | |

24. Please check the box that fits you family income.

- | | | |
|---------------------------|---------------------------|-------------------------|
| _____ Under \$5,000 | _____ \$5,000 - \$6,999 | _____ \$7,000 - \$9,999 |
| _____ \$10,000 - \$14,999 | _____ \$15,000 - \$24,999 | _____ Over \$25,000 |

25. Are there any additional comments that you would like to make? (Use additional sheet of paper if you need more room)

BIBLIOGRAPHY

- CHUBB, MICHAEL (Editor) (1974) Proceedings of the 1971 Snowmobile and Off-The-Road Vehicle Research Symposium, Michigan State University, Department of Park and Recreation Resources, Recreation Research and Planning Unit, technical report 8.
- DIRECTIONAL MARKETING COMPANY (1974) Snowmobile Registration - 1974, Michigan, Grand Rapids, Michigan, Directional Marketing Co.
- DIRECTIONAL MARKETING COMPANY (1974) Snowmobile Registration - 1974, Minnesota, Grand Rapids, Michigan, Directional Marketing Co.
- DIRECTIONAL MARKETING COMPANY (1974) Snowmobile Registration - 1974, Wisconsin, Grand Rapids, Michigan, Directional Marketing Co.
- DIRECTIONAL MARKETING COMPANY (1970) 1970 Snowmobile Survey, Grand Rapids, Michigan, Directional Marketing Co. (Financed by the Upper Great Lakes Regional Commission).
- FIOLA, HENRY R. (Publisher) (1973) Snowsports Market Study - 1973, Minneapolis, Minnesota, Winana, Inc.
- HOEL, PAUL G. (1974) Introduction to Mathematical Statistics, second edition, New York, New York, John Wiley and Sons, Inc.
- JAMSEN, GALE C. (1971) Michigans' Mail Creel Census Methodology, Lansing, Michigan; Michigan Department of Natural Resources, Research and Development Report No. 252.
- LEABO, DICK A. (1968) Basic Statistics, Third Edition, Homewood, Illinois: Richard D. Irvin, Inc.
- MICHIGAN DEPARTMENT OF NATURAL RESOURCES (1972) Help plan your parks. A questionnaire developed by the Michigan Department of Natural Resources for a study in the Huron-Clinton Metropolitan Authority Parks.
- RECREATION RESOURCE CONSULTANTS (1971) 1971 Michigan Recreational Boating Study, Report number 2, East Lansing, Michigan: Recreation Resource Consultants.

DNR Regions

