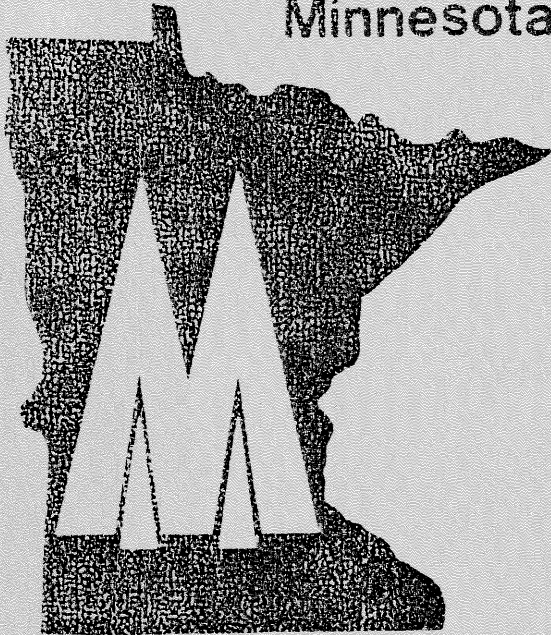


Minnesota



DEPARTMENT OF
NATURAL RESOURCES

③ December 1978
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WINTER
MAILED QUESTIONNAIRES

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Research and Policy Section
Bureau of Comprehensive Planning & Programming

WINTER MAIL QUESTIONNAIRES

Compiled for
The Minnesota Department of Natural Resources
Bureau of Comprehensive Planning and Programming
St. Paul, Minnesota

by
Michael J. Dalton

Institute of Outdoor Recreation and Tourism
Utah State University
Logan, Utah

and

William H. Becker

Minnesota Department of Natural Resources
Bureau of Comprehensive Planning and Programming

December, 1978

Report Number 2305

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ERRATA

Rate of return tables and text refer to "effective rates of return." "Effective" should read "adjusted."

TABLE OF CONTENTS

	PAGE
Introduction	1
Sample Selection	1
Facility Adequacy Administration	2
Hunter Survey Administration	4
Cross Country Skier Survey Administration	6
Snowmobiler Survey Administration	8
Appendix A - Winter Telephone Questionnaire	22
Appendix B - Facility Adequacy Questionnaire	26
Appendix C - Hunter Questionnaire	29
Appendix D - Cross-Country Skier Questionnaire	34
Appendix E - Snowmobiler Questionnaire	39

LIST OF TABLES

	PAGE
Table 1: Facility Adequacy Sample Size by Month and Region	3
Table 2: Facility Adequacy Completed Questionnaires and Undeliverables by Month and Region	
Table 3: Facility Adequacy Raw Rate of Return and Adjusted Rate of Return by Month and Region	6
Table 4: Hunter Survey Sample Size by Month and Region	8
Table 5: Hunter Survey Completed, Returned Questionnaires and Undeliverable Questionnaires by Region and Month	9
Table 6: Hunter Survey Raw and Effective Rates of Return by Region and Month	11
Table 7: Cross-Country Skier Survey Sample Size by Month and Region .	13
Table 8: Cross-Country Skier Completed Returns and Undeliverables by Month and Region	14
Table 9: Raw and Effective Return Rates for Cross-Country Skier Survey by Month and Region	15
Table 10: Snowmobiler Sample Size by Month and Region	18
Table 11: Snowmobiler Survey Completed Returns and Undeliverables by Month and Region	19
Table 12: Raw and Effective Return Rates for Snowmobiler Survey by Month and Region	20

Introduction

This report contains the series of mailed questionnaires which are companion to the SCORP Winter Outdoor Recreation Telephone Survey discussed in the Minnesota Recreation Management Information System Report Series Reports Number 1, 2, 3, and 4. Because more specific information was needed concerning some specific outdoor recreation activities than could be conveniently gathered during telephone interviews, it was decided to develop a series of questionnaires which could be mailed directly to individual Minnesota residents who were identified as being participants in hunting, snowmobiling, or cross-country skiing. In addition, a questionnaire to obtain residents' feelings concerning the adequacy of recreation facilities in the state was developed to be mailed to individuals selected from households interviewed during the course of either the winter or summer telephone survey.

Sample Selection

All persons selected to receive one of the mailed questionnaires had been identified as engaged in the activity in question (snowmobiling, cross-country skiing, or hunting) through the winter telephone survey Appendix A. They were selected utilizing a method developed by Leslie Kish¹ for selecting one person from a household. All households containing persons exhibiting certain characteristics, such as, participation in snowmobiling, cross-country skiing, etc., were identified and arranged by Minnesota Development Region. Then, a predetermined number of target households were randomly selected from each region. The household

¹Kish, Leslie. 1965. Survey Sampling. Chapter 11.3 page 397-401.
Kish, Leslie. 1949. "A Procedure for Objective Resondent Selection Within the Household." JASA, 44, 380-387.

member to receive a questionnaire was selected according to Kish's system. According to Kish, a sample of this variety would result in data similar to a random sample of persons exhibiting the specific characteristic.

The criteria for potential facility adequacy recipients was not as restrictive as that for the other three questionnaires. Persons to receive facility adequacy questionnaires were chosen from a pool of all persons over 15 years old during the winter telephone survey. As with the other satellite questions, only one person per household was selected to receive a facility adequacy questionnaire. It would be possible, however, for an individual to receive more than one type of questionnaire through the mail.

While little demographic data was asked for in conjunction with each of the satellite questionnaires, basic demographic information was gathered via the telephone interview and can be retrieved for any one individual through matching case numbers in the cross-country data file with case numbers in the telephone data file.

Facility Adequacy Administration

This questionnaire (Appendix B) was developed with three objectives in mind: 1) To discover what types of additional outdoor recreation facilities are most desired by Minnesota residents; 2) To discover how close specific types of outdoor recreation facilities should be to concentrations of user population so as to insure the use of those facilities; 3) To measure, over time, changes which have occurred in outdoor recreation participation in specific activities.

Mailings were made on a monthly basis to selected household members during the months of January through September, 1978 (June was omitted).

This period covered both warm and cold months. That allows the detection of bias resulting from the season of sampling.

A quota of 5,000 residents from all parts of Minnesota was the targeted sample size, with 300+ questionnaires going to residents of each of Minnesota Development Regions 1 through 10 and 1500 going to residents of Minnesota Development Region 11. The actual sample size was slightly larger with a statewide mailing of 5812. Table 1 shows the sample sizes by month and region.

TABLE 1: Facility Adequacy Sample Size
by Month and Region

MONTH OF MAILING	REGION													TOTAL
	1	2	3	4	5	6E	6W	7E	7W	8	9	10	11	
January	42	43	42	42	42	42	43	42	42	42	42	42	208	714
February	42	43	42	42	41	42	42	41	42	42	42	42	210	713
March	46	42	43	42	42	42	38	43	46	41	41	42	214	722
April	42	43	40	42	44	42	42	44	61	42	42	42	206	732
May	43	46	44	44	44	43	44	44	45	43	44	45	211	740
June	0	0	0	0	0	0	0	0	0	0	0	0	0	0
July	41	41	42	41	41	42	40	40	42	42	42	42	211	707
August	40	41	41	42	40	39	41	42	41	41	41	41	242	732
September	48	44	46	42	44	44	48	42	45	48	45	43	213	752
TOTAL	344	343	340	337	338	336	338	338	364	341	339	339	1715	5812

The facility adequacy questionnaire recipients were asked: (1) to identify the one type of facility they felt was most needed; (2) how great their need for additional facilities was; (3) what they felt was a reasonable distance to travel to participate in that activity (from question 1); (4) where the present supply of those facilities was located; (5) to identify the second most needed type of facility and give additional information about the present supply; (6) if during the past 12 months, the respondent had begun

participating in any new outdoor recreation activities and some information about those participations; (7) whether or not they had stopped participating in any outdoor recreation activities; (8) whether they had increased or decreased participation in any outdoor recreation activities; (9) indicate from a list of 29 activities, any they had participated in five years previously; and (10) to list any comments they may have had.

Table 2 shows the number of questionnaires that failed to reach the respondents because of wrong addresses. Additionally, this table gives the number of questionnaires usable, completed and received by SCORP surveys. These data are presented by mailing month and region.

Table 3 converts the returned figures to raw and effective rate of return. Raw return rate is calculated by dividing the number mailed into the number received. If the number of questionnaires failing to reach the respondent is subtracted from the total mailed and that result is used as the divisor, the adjusted rate of return is found. The overall rate of return is in the 53 to 54 percent range. The high rate of return for any one region, month combination is 74 percent. The low was 19 percent.

Two remailings were made to non-respondents in the first five months. Because of a change in Minnesota Department of Natural Resources mailing policy that took effect in July of 1978, only one remailing was made following that date.

Hunter Survey Administration

The hunter questionnaire (Appendix C) was developed: (1) to collect hunter origin and destination data for hunting seasons not covered by the winter telephone survey; (2) to aid in the development of various hunter programs including sportsmen licenses, hunter education, shooting

TABLE 2: Facility Adequacy Completed Questionnaires and Undeliverable by Month and Region

MONTH	REGION													Total
	1	2	3	4	5	6E	6W	7E	7W	8	9	10	11	
January														
Wrong Address	1	3	0	4	0	3	1	0	3	1	4	0	8	28
Completed	27	25	24	24	21	26	22	31	27	23	23	27	116	416
February														
Wrong Address	2	3	1	1	0	1	2	0	2	0	0	0	12	24
Completed	22	20	26	19	25	20	28	26	18	27	24	26	132	413
March														
Wrong Address	2	1	1	0	1	1	1	2	3	2	2	0	19	35
Completed	25	27	23	24	27	25	21	25	27	22	17	24	113	400
April														
Wrong Address	1	1	1	0	0	1	0	0	3	0	0	2	6	15
Completed	22	21	26	23	27	23	29	21	39	26	26	26	118	427
May														
Wrong Address	2	1	2	4	1	1	4	0	0	1	2	3	10	31
Completed	22	26	16	12	19	26	22	24	22	21	26	28	114	378
July														
Wrong Address	0	0	1	3	1	1	1	0	0	0	1	1	8	17
Completed	20	19	26	17	22	20	16	13	20	20	16	18	86	313
August														
Wrong Address	2	0	0	1	0	0	0	0	2	0	2	0	6	13
Completed	17	27	21	23	24	9	27	8	17	18	23	16	105	335
September														
Wrong Address	0	2	1	1	2	1	0	0	1	1	0	1	8	18
Completed	29	24	25	22	19	27	24	20	22	22	19	23	98	374
TOTAL														
Wrong Address	10	11	7	14	5	9	9	2	14	5	11	7	77	181
Completed	184	189	187	164	184	176	189	168	192	179	174	188	882	3056

TABLE 3: Facility Adequacy Raw Rate of Return and Adjusted Rate of Return by Month and Region

MONTH	REGION													
	1	2	3	4	5	6E	6W	7E	7W	8	9	10	11	Total
January														
Raw %	64	58	57	57	50	62	51	74	64	55	55	64	56	58
Adjusted %	66	63	57	63	50	67	52	74	69	56	61	64	58	61
February														
Raw %	52	47	62	45	61	48	67	63	43	64	57	62	63	58
Adjusted %	55	50	63	46	61	49	70	63	45	64	57	62	67	60
March														
Raw %	54	64	53	57	64	60	55	58	69	54	41	57	53	55
Adjusted %	57	66	55	57	66	61	57	61	63	56	44	57	58	58
April														
Raw %	52	49	65	55	61	55	69	48	64	62	62	62	57	58
Adjusted %	54	50	67	55	61	56	69	48	67	62	62	65	59	60
May														
Raw %	51	57	36	27	43	60	50	55	49	49	59	62	54	51
Adjusted %	54	58	38	30	44	62	55	55	49	50	62	67	57	53
July														
Raw %	49	46	62	41	41	48	40	33	48	48	38	43	41	44
Adjusted %	49	46	63	45	45	49	41	33	48	48	39	44	42	45
August														
Raw %	43	66	51	55	60	23	66	19	41	44	56	39	43	46
Adjusted %	45	66	51	56	60	23	66	19	44	44	59	39	44	47
September														
Raw %	60	55	54	52	43	61	50	48	49	46	42	53	46	50
Adjusted %	60	57	56	54	45	63	50	48	50	47	42	55	48	51
TOTAL														
Raw %	53	55	55	49	53	52	56	50	53	52	51	55	51	53
Adjusted %	55	57	56	51	54	54	57	50	55	53	56	57	54	54

ranges, dog training areas, private hunting cooperative development, and the various game limits; (3) to facilitate public input into decision-making.

Hunters were identified through the winter telephone survey. A special question identified all hunters in the household (question 13, Appendix A). Hunters identified were not limited to those persons who had actually engaged in one or more hunting occasions during the sample week the household spokesperson was asked about.

Questionnaires were mailed during the months of January, February, and March of 1978 to 2,153 hunters over 12 years of age from all parts of the state of Minnesota (Table 4). The target sample for all regions was 143 except Region 11 which was targeted at 429.

The variation from the target figures evident in the regional total was primarily caused by the nature of the sample universe identification approach and the need to keep work flowing through the shop. Three mailing dates were scheduled according to work load of the survey crew. One week prior to the mailing date, the number of telephone contacts from the last mailing date to the current one was ascertained. That number, divided by the total anticipated sample yielded the proportion of the target figure that should come from that set of household contacts. Assume that the sample selected for mailing in January came from the first group of household contacts which equaled 42 percent of the total anticipated contacts. Then, 42 percent of the target sample should have come from that set of contacts. As the telephone survey did not commence simultaneously in each region, unique proportions were calculated for each region.

Table 5 shows the number of completed and undeliverable questionnaires

TABLE 4: Hunter Survey Sample Size
by Month and Region

REGION				
REGION	January	February	March	Total
1	65	53	25	143
2	61	54	26	141
3	65	55	26	146
4	63	53	27	143
5	63	53	27	143
6E	61	56	28	145
6W	61	56	27	144
7E	63	51	27	141
7W	59	57	28	144
8	56	51	30	137
9	79	55	30	164
10	60	56	23	139
11	152	183	93	428
TOTAL	908	833	417	2158

TABLE 5: Hunter Survey Completed, Returned Questionnaires and Undeliverable Questionnaires by Region and Month

REGION	MONTH							
	January		February		March		Total	
	Completed/ Returned	Undeli- verable	Completed/ Returned	Undeli- verable	Completed/ Returned	Undeli- verable	Completed/ Returned	Undeli- verable
1	34	2	27	0	15	0	76	2
2	38	1	29	3	16	0	83	4
3	47	2	34	1	19	0	100	3
4	37	3	36	1	18	2	91	6
5	37	2	26	2	16	1	79	5
6E	28	2	28	4	16	1	72	7
6W	38	1	33	1	10	0	81	2
7E	33	0	30	3	13	0	76	3
7W	40	1	30	3	17	1	87	5
8	37	2	29	2	13	2	79	6
9	48	5	27	1	21	1	96	7
10	34	2	28	3	15	1	77	6
11	70	10	105	12	41	6	216	28
TOTAL	521	33	462	36	230	16	1213	84

TABLE 6: Hunter Survey Raw and Effective
Rates of Return by Region and Month

Region	January		February		March		Total	
	Raw	% Effective	Raw	% Effective	Raw	% Effective	Raw	% Effective
1	52	54	51	51	60	60	53	54
2	62	63	54	57	62	62	59	61
3	72	75	62	63	73	73	68	70
4	59	62	68	69	67	72	64	66
5	59	61	49	51	59	62	55	57
6E	46	47	59	60	57	59	53	55
6W	62	63	59	60	37	37	56	57
7E	52	52	59	63	48	48	54	55
7W	68	69	53	56	61	63	60	63
8	66	69	57	59	43	46	58	60
9	61	65	49	50	70	72	59	61
10	57	59	50	53	65	68	55	58
11	46	49	57	61	44	47	50	54
TOTAL	57	60	55	58	55	57	56	58

by month and region. Table 6 translates these into raw and effective rates of return. In general, the two remailings to nonrespondents generated an excellent rate of return for the questionnaire.

Respondents were asked to: (1) indicate all the types of Minnesota hunting, trapping, or fishing licenses purchased during 1977; (2) to indicate the species hunted during 1977; (3) information concerning all 1977 Minnesota hunting trips taken away from home; (4) identify the types of information hunters would desire as part of a hunter education program and other information about those programs; (5) describe needs for shooting ranges; (6) describe the need for hunting dog training areas; (7) indicate how much hunters would be willing to pay for private land hunts; (8) whether or not they leased private hunting lands, or own them; (9) whether they possessed a Minnesota firearms safety certificate; (10) indicate how many sportsmen or conservation groups they were affiliated with; (11) state their favorite species to hunt; (12) state whether they hunted as much as they desired and to indicate reasons which may encourage them to hunt more; (13) indicate what type of job DNR was doing in regard to hunting and how that job could possibly be improved; (14) indicate how important non-game species were to the enjoyment of a hunting trip; (15) say if they would participate in a voluntary trapper education program; and (16) list any comments.

Cross Country Skier Survey Administration

The cross-country skier questionnaire (Appendix D) was designed to: (1) measure the amount and type of need for additional cross-country ski trails as expressed by Minnesota's cross-country skiers; (2) obtain a baseline value for the yearly average number of cross-country ski outings per skier; (3) ascertain the compatibility of cross-country skiing with

other winter trail activities; (4) ascertain the yearly repeat use of individual cross-country ski trails; (5) measure the experience levels of Minnesota cross-country skiers; (6) provide background data for the development of cross-country ski trail design policies; and (7) investigate similarities and differences between cross-country skiers and snowmobilers.

As with the other satellite questionnaires in this series, a pool of known cross-country skiers was produced utilizing information gained from the winter telephone survey (Appendix A, question 4).

Originally, each region was targeted for 143 sample units, except the metropolitan region at 429. The plan called for random selection of the target number of households with one or more cross-country skier in them. There were to be selected from all households identified by telephone as holding one or more skiers. Unfortunately, the telephone survey identified less than the target number in every region. Therefore, all households holding one or more skiers were used. Using Kish's method of selecting from clusters, one cross-country skier over 16 years of age was selected from each household cluster.

Three mailings were made at convenient points during the year, one in January, one in February, and one in April. Nonrespondents were remailed a complete packet including a new questionnaire. Those still failing to respond following the first remailing were again sent complete packets.

Tables 7, 8, and 9 summarize the sample size and return rates by month and region.

Respondents were asked: (1) if they felt there was a need for additional ski trails and if they did to describe the general type of trail

TABLE 7: Cross-Country Skier Survey Sample Size by Month and Region

Region	Month			Total
	January	February	March	
1	29	15	11	55
2	63	25	27	115
3	65	36	21	122
4	43	27	12	82
5	36	21	20	77
6E	24	32	9	65
6W	12	15	5	32
7E	36	21	15	72
7W	58	32	20	110
8	19	19	11	49
9	19	17	12	48
10	29	21	19	69
11	109	122	63	294
TOTAL	542	403	245	1190

TABLE 8: Cross-Country Skier Completed Returns
and Undeliverables by Month and Region

Region	January		February		March		Total	
	Undeli- verable	Completed	Undeli- verable	Completed	Undeli- verable	Completed	Undeli- verable	Completed
1	3	16	1	5	3	2	7	23
2	3	33	0	13	2	13	5	59
3	2	43	2	16	1	13	5	72
4	0	30	2	21	1	7	3	58
5	1	22	1	15	1	11	3	48
6E	1	10	1	22	0	7	2	39
6W	1	9	1	9	0	3	2	21
7E	2	24	1	11	2	9	5	44
7W	3	38	1	20	6	8	10	66
8	2	12	1	13	2	8	5	33
9	1	9	1	11	1	9	3	29
10	2	12	0	13	1	10	3	35
11	12	56	8	73	5	32	25	161
TOTAL	33	314	20	242	25	132	78	688

TABLE 9: Raw and Effective Return Rates for
Cross-Country Skier Survey by Month and Region

Region	January		February		March		April	
	Raw%	Effective%	Raw%	Effective%	Raw%	Effective%	Raw%	Effective%
1	55	62	33	36	18	25	42	48
2	52	55	52	52	48	52	51	54
3	66	68	44	47	62	65	59	62
4	70	70	78	84	58	64	71	73
5	61	63	71	75	55	58	62	65
6E	42	43	69	71	78	78	60	62
6W	75	82	60	64	60	60	66	70
7E	67	71	52	55	60	69	61	66
7W	66	69	63	65	40	57	60	66
8	63	71	68	72	73	89	67	75
9	47	50	65	69	75	82	60	64
10	41	44	62	62	53	56	51	53
11	51	58	60	64	51	55	55	60
TOTAL	58	62	60	63	54	60	58	62

and the maximum distance from their residence a trail could be located; (2) whether the respondent would be willing to work on trail maintenance; (3) if shelters should be built along trails, if so what the distance between them should be; (4) to describe how trails should be paid for; (5) how many hours their average ski outing lasts and how many miles are covered on the average; (6) how many outings are taken per year and how many of those are taken on groomed, marked trails; (7) what type of a group they normally ski with; (8) to describe their feelings with regard to sharing trails with other types of winter recreators; (9) how many times in one season they could ski the same trail and not have their enjoyment decrease; (10) to describe their skiing skill level; (11) what is the longest distance they had ever skied in one day; (12) whether they had ever winter-tent camped in Minnesota; (13) to list other activities in which they participated in association with a ski trip; (14) what their biggest gripe concerning Minnesota skiing was; (15) if they had a distance they try to ski each week, if so what that distance is; (16) to describe their "most-needed" cross-country ski trail by commenting on its length and design; (17) if trails should be patrolled by law officers or first aid persons; (18) to describe other elements of their "most-needed" trail; (19) to list their age, years of formal education, and occupation; and (20) to list any comments they may have regarding cross-country skiing.

Snowmobiler Survey Administration

The snowmobiler questionnaire (Appendix E) was designed to: (1) measure the amount and type of need for additional snowmobile trails as reported by Minnesota snowmobilers; (2) obtain a baseline information concerning average snowmobile outings; (3) ascertain the compatibility of snowmobilers and other winter trail users; (4) ascertain the yearly

repeat use of snowmobile trails; (5) provide background data for the development of snowmobile trail design policies; and (6) investigate the similarities and differences between snowmobilers and cross-country skiers.

The process used to select snowmobilers to be sampled was identical to the method described above for cross-country skiers; however there were ample snowmobiler households to reach the target sample sizes. Surveys were mailed during January through April, 1978. Approximately 143 persons from each region were mailed questionnaires, except 273 were sent to Region 11, resulting in a total of nearly 2,000. Tables 10, 11, and 12 summarize the mailing and return by month and region.

Respondents were asked: (1) if they felt additional trails should be developed, if so what general type and how far from their home it should be located; (2) whether they would be willing to spend one day a year working on trail maintenance; (3) if rest shelters should be developed along trails, if yes, how far apart they should be placed; (4) where funds for snowmobile areas should come from; (5) what was the length and duration of their average snowmobile occasion and how many outings per year did they take; (6) how many outings were on a groomed, marked trail; (7) how many years they had snowmobiled; (8) what type of group they usually snowmobiled with; (9) whether or not other types of trail users would cause conflicts; (10) how many times during a season they could use one trail before their enjoyment would decrease; (11) what other activities they participate in while on snowmobile outings; (12) to describe their "most-needed" trail; (13) whether trails should be patrolled by law enforcement officers and/or persons offering first aid and assistance; (14) what is their biggest gripe concerning Minnesota snowmobiling; (15) their age; (16) their number of years of formal education; and (17) to list any comments.

TABLE 10: Snowmobiler Survey Sample Size
by Month and Region

Region	Month			Total
	January	February	March	
1	64	53	26	143
2	64	54	27	145
3	67	53	26	146
4	63	51	28	142
5	65	53	27	145
6E	62	56	29	147
6W	59	53	28	140
7E	62	55	27	144
7W	59	55	29	143
8	59	47	29	135
9	58	53	29	140
10	61	52	22	135
11	108	103	62	273
TOTAL	851	738	389	1978

TABLE 11: Snowmobilers Survey Completed Returns and Undeliverables by Month and Region

REGION	MONTH							
	January		February		March		Total	
	Undeli- verable	Completed	Undeli- verable	Completed	Undeli- verable	Completed	Undeli- verable	Completed
1	0	31	1	26	1	16	2	73
2	1	30	1	31	1	14	3	75
3	0	40	0	27	1	17	1	84
4	4	32	1	29	0	16	5	77
5	0	36	1	31	0	12	1	79
6E	3	24	3	28	1	17	7	69
6W	1	40	1	24	0	13	2	77
7E	0	32	2	32	3	10	5	74
7W	4	39	3	31	1	19	8	89
8	2	29	1	28	0	12	3	69
9	2	31	1	26	1	17	4	74
10	1	35	3	26	2	12	6	73
11	9	50	10	43	4	29	23	122
TOTAL	27	449	28	382	15	204	70	1035

TABLE 12: Raw and Effective Return Rates for
Snowmobiler Survey by Month and Region

REGION	MONTH							
	January		February		March		Total	
	Raw%	Effective%	Raw%	Effective%	Raw%	Effective%	Raw%	Effective%
1	48	48	49	50	62	64	51	52
2	47	48	57	58	52	54	52	53
3	60	60	51	51	65	68	58	58
4	51	54	57	58	57	57	54	56
5	55	55	58	60	44	44	54	55
6E	39	41	50	53	59	61	47	49
6W	68	69	45	46	46	46	55	56
7E	52	52	58	60	37	42	51	53
7W	66	71	56	60	66	68	62	66
8	49	51	60	61	41	41	51	52
9	53	55	49	50	59	61	53	54
10	57	58	50	53	55	60	54	57
11	46	51	42	46	47	50	45	49
TOTAL	53	55	52	54	52	55	52	54

As with all other satellite questionnaires, the information on the returned form can be supplemented with data gathered during the telephone interview of the household.

Appendix A

Winter Telephone Questionnaire

MINNESOTA OUTDOOR RECREATION WINTER PARTICIPATION QUESTIONNAIRE

1. Hello, my name is _____. I'm calling from the Minnesota Department of Natural Resources. Am I speaking with a head of the household?
_____ Yes (GO TO 5) _____ No (GO TO 2)
2. Is a of the household there?
_____ Yes (GO TO 4) _____ No (GO TO 3)
(If a young adult, go to 6)
3. When might I be able to reach the head of the household? (Record the information in return call space and terminate call.)
4. May I speak with a head of the household?
_____ Yes (GO TO 1) _____ No (GO TO 3)
5. To aid the Minnesota Legislature and the Department of Natural Resources in their planning, we are asking Minnesota residents to tell us about their household's outdoor recreation activities. By knowing what you do or don't do outdoors we can better meet your needs. May I have a few minutes of your time?
_____ Yes (If head of household, go to 8. If young adult, 16 years of age or over, go to 6.)
_____ No (GO TO 7)
(If respondent is older and indicates no activities, GO TO 8)
6. We are interested in whether or not members of your household participated in any of several of outdoor recreation activities during the last week, and when, where, and for how long they participated. Do you think you could give us that information:
_____ Yes (GO TO 9) _____ No (GO TO 3)
7. This is an opportunity for you to have a direct influence on how your tax money and the resources of Minnesota are used since only a few households are being asked to participate. It is in your own self-interest and that of your family to answer these questions and we would sure like your input. You have been randomly selected from a list of telephone numbers. Unless you wish to identify yourself, confidentiality will be maintained. Now, may I ask you a few questions?
_____ Yes (GO TO 9) _____ No (TERMINATE: "THANK YOU FOR YOUR TIME.")
8. Your cooperation is important even if you don't recreate. We don't want to spend your tax dollars on recreation, when they could be better used to provide services that are more valuable to you, or simply returned to you in the way of lower taxes.
_____ Yes (GO TO 9) _____ No (TERMINATE: "THANK YOU FOR YOUR TIME.")

9. Beginning with the youngest, please give us the first name, age, and whether female or male of each member of your household currently living at home. (USE ONLY THOSE PERSONS OVER 6 YEARS OF AGE FOR PARTICIPATION DATA AND LIST FROM THE YOUNGEST TO THE OLDEST.) (SKIP TO 12 IF OLDER RESPONDENT WHO HAS INDICATED NO ACTIVITY.)
10. I'm going to read a list of recreation activities. If any members of your household OVER 6 YEARS OF AGE participated in that activity during the period of _____ to _____, please say yes.
11. Now that you have told me what the members of your household have done, I need to know who, where, how long, and when it was done. (I realize that this may be hard to remember, but it's very important if we are going to be able to give your household the opportunity to do the kinds of things you like to do.) Let's begin and I'll help you out as we go.

Person	Activity	Specifically Where	WE/WD	Time (Begin-Finish)
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____

12. Did any members of your household go, or do any plan to go fishing, hunting, or trapping during the current season?
 ____ Yes (GO TO 13) ____ No (GO TO 14)
13. Would you give me their first name(s), and whether they hunted, fished or trapped.
 Name(s) _____
14. Did any members of your household go snowmobiling or are planning to go cross-country skiing, or snowshoeing during the last season?
 ____ Yes (GO TO 15) ____ No (GO TO 16)
15. Would you give me their first name(s), and whether they are snowmobilers, cross-country skiers or snowshoers.
 Name(s) _____
16. I will read a list of recreation items. Please tell me which type and how many are owned by your immediate household.
- | | |
|-----------------------------------|--------------------------|
| ____ bicycle | ____ trailbike |
| ____ camping vehicle, van | ____ vacation home |
| ____ canoe, kayak | ____ fishing boat |
| ____ fourwheel drive vehicle | ____ pontoon boat |
| ____ ice fishing hut | ____ ice boat |
| ____ snowmobile | ____ sailboat, catamaran |
| ____ cross country skiing (pairs) | ____ speed boat |
| ____ snowshoes (pairs) | |

To classify our responses, we need answers to the following questions:

17. Do you live in an urban or rural area?
 ____ Urban ____ Rural
18. What is your zip code? For example, my Minneapolis zip code is 55047.

19. In which county do you live? _____

20. How long have you lived in that county? _____
21. How long has your spouse lived in that county? _____
22. How long have you (OR OLDEST HHM) lived in Minnesota? _____
23. How long has your spouse lived in Minnesota? _____
24. Are you married? _____ Single? _____
25. What is your (OR OLDEST HH) highest grade or year of education completed?
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 16+
26. (IF APPLICABLE) Your (OLDEST HH) spouse's?
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 16+
27. What is your (OR OLDEST HHM) occupation? _____
28. Are you currently employed in that capacity?
_____ Yes _____ No
29. (IF APPLICABLE) Your spouse's? _____
30. Is your spouse currently employed in that capacity?
_____ Yes _____ No
31. I'm going to read some income categories. When I come to the one that includes your total annual family income, stop me.
- | | |
|---------------------------|---------------------------|
| _____ Under \$5,000 | _____ \$20,000 - \$25,000 |
| _____ \$ 5,000 - \$10,000 | _____ \$25,000 - \$30,000 |
| _____ \$10,000 - \$15,000 | _____ Over \$30,000 |
| _____ \$15,000 - \$20,000 | |
34. One final question: is the telephone number I have reached (AREA CODE) -
(NUMBER) _____?
_____ Yes _____ No

Thank you very much for your help. If you would like a copy of the information we get from this survey, give me your full name and address and I'll send one to you. It will be awhile before this is printed, but you'll be the first to get one. If you wish to verify the legitimacy of this survey, you can call your local DNR office or state police post.

Thanks again for your input.

Appendix B

Facility Adequacy Questionnaire

Dear Minnesotan:

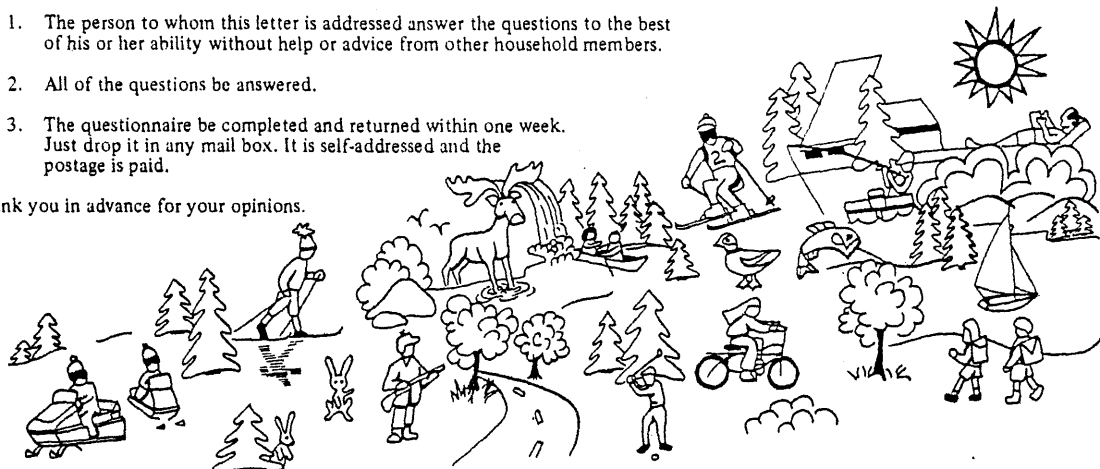
The Minnesota Department of Natural Resources and your legislature are sponsoring a large-scale outdoor recreation study. In fact, you may recall that a member of your household was recently interviewed by phone. The purpose of the study is to help your government better meet the needs and wants of Minnesota residents.

The questionnaire is a very important portion of the study. By answering the questions below you can influence the people who make decisions on facilities and opportunities for outdoor recreation. In the study "outdoor recreation" refers to all the activities people take part in during their free time out-of-doors for relaxation, pleasure, or amusement. When we say out-of-doors that includes your neighborhood as well as places outside your local community.

In completing this questionnaire, it is important that:

1. The person to whom this letter is addressed answer the questions to the best of his or her ability without help or advice from other household members.
2. All of the questions be answered.
3. The questionnaire be completed and returned within one week. Just drop it in any mail box. It is self-addressed and the postage is paid.

Thank you in advance for your opinions.



- 1a. One area of particular concern is the present supply of facilities and opportunities for outdoor recreation activities. Which one outdoor recreation activity do you feel is in the greatest need of additional facilities or opportunities for your enjoyment?

- b. Your need for the additional facilities or opportunities is: ☐ 1 ☐ 2 ☐ 3 ☐ 4 ☐ 5
very small very great

- c. What do you feel is a reasonable distance for you to travel to participate in this activity? _____ Mile(s)

- d. Please name the places within reasonable traveling distance from your home that now provide facilities or opportunities for this activity.

_____	_____
_____	_____
_____	_____

- 2a. Which outdoor recreation activity do you feel has the second greatest need for additional facilities or opportunities in your area?

- b. Your need for these additional facilities or opportunities is: ☐ 1 ☐ 2 ☐ 3 ☐ 4 ☐ 5
very small very great

- c. What do you feel is a reasonable distance for you to travel to participate in this activity? _____ Mile(s)

- d. Please name the places within reasonable traveling distance from your home that now provide facilities or opportunities for this activity.

_____	_____
_____	_____
_____	_____

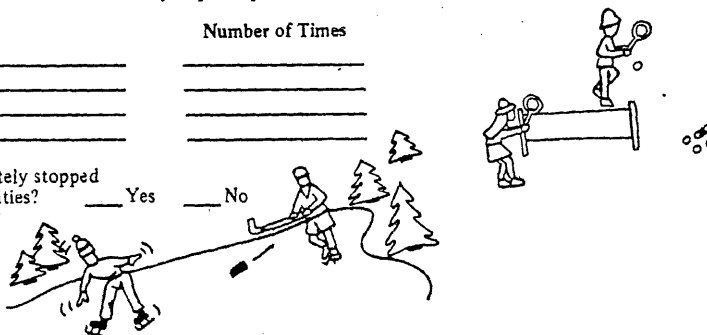
Now we would like to know about changes in your personal outdoor recreation activities during the last 24 months. Specifically, we would like to learn about activities you've taken up, quit participating in, increased or decreased your participation in.

- 3a. During the past 12 months have you taken up, for the first time, any new outdoor recreation activities? ____ Yes ____ No
If yes, please list the activities and indicate the number of times you participated in the last 12 months.

Activity	Number of Times
_____	_____
_____	_____
_____	_____

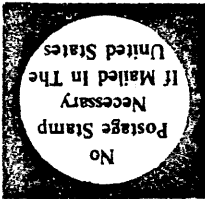
4. During the past 12 months have you completely stopped participating in any outdoor recreation activities? ____ Yes ____ No

If yes, please list the activities.



RECREATION RESEARCH
BOX 11
DEPARTMENT OF NATURAL RESOURCES
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ST. PAUL, MINNESOTA 55155

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5. Did you increase your participation in any outdoor recreation activities in the 12 month period just ending compared to the 12 months before that period? ____ Yes ____ No

If yes, please list your three most increased activities in the blanks labeled A, B, and C below. In the space provided to the right of each activity you list, estimate the number of times you participated in each activity in the 12 months just ending, the number of times you participated during the previous 12 months, and the number of times you expect to participate during the upcoming 12 months. For activities that take up most of a day, one day equals one participation.

	Activity	No. of Participations last 12 months	No. of Participations the 12 months before	No. of Participations upcoming 12 months
A.	_____	_____	_____	_____
B.	_____	_____	_____	_____
C.	_____	_____	_____	_____

6. Did you decrease your participation in any outdoor recreation activities in the 12 month period just ending compared to the 12 months before that period? ____ Yes ____ No

If yes, please list your three most decreased activities in the blanks labeled A, B, and C below. In the space provided to the right of each activity you list, estimate the number of times you participated in each activity in the 12 months just ending, the number of times you participated during the previous 12 months, and the number of times you expect to participate during the upcoming 12 months. For activities that take up most of a day, one day equals one participation.

	Activity	No. of Participations last 12 months	No. of Participations the 12 months before	No. of Participations upcoming 12 months
A.	_____	_____	_____	_____
B.	_____	_____	_____	_____
C.	_____	_____	_____	_____

7. Below, check the box to the left of the activities that you participated in during the year of January 1, 1973 to December 31, 1973. That is 5 years ago.

- | | | | |
|---|---|---|---|
| <input type="checkbox"/> Backpacking | <input type="checkbox"/> Trail biking (motorized) | <input type="checkbox"/> Horseback riding | <input type="checkbox"/> Cross-country Skiing |
| <input type="checkbox"/> Bicycling | <input type="checkbox"/> Canoeing | <input type="checkbox"/> Tennis | <input type="checkbox"/> Downhill Skiing |
| <input type="checkbox"/> Archery | <input type="checkbox"/> Powerboating | <input type="checkbox"/> Target shooting
(trap, skeet, or range) | <input type="checkbox"/> Snowshoeing |
| <input type="checkbox"/> Fishing (summer) | <input type="checkbox"/> Sailboating | <input type="checkbox"/> Baseball or Softball | <input type="checkbox"/> Ice Fishing |
| <input type="checkbox"/> Picnicking | <input type="checkbox"/> Day hiking | <input type="checkbox"/> Visiting Historic Sites | <input type="checkbox"/> Hunting |
| <input type="checkbox"/> Golf | <input type="checkbox"/> Four wheeling (ATVs) | <input type="checkbox"/> Snowmobiling | <input type="checkbox"/> Ice boating |
| <input type="checkbox"/> Camping | <input type="checkbox"/> Orienteering | <input type="checkbox"/> Ice skating | <input type="checkbox"/> Snow tubing |
| | | | <input type="checkbox"/> Trapping |

Thank you for your help. If you have any comments, please write them below:

PLEASE DROP IN THE NEAREST MAIL BOX - POSTAGE IS PREPAID

Appendix C

Hunter Questionnaire



Dear Minnesota Hunter:

The Minnesota Department of Natural Resources and your legislature are sponsoring a large-scale outdoor recreation study. In fact, you may recall that a member of your household was recently interviewed by phone. In that interview you were identified as one of Minnesota's hunters. Since one of the purposes of this study is to help your wildlife managers better understand the wants and needs of Minnesota hunters, we are asking you to tell us about your hunting.

In completing this questionnaire it is important that:

1. You answer the questions to your best ability without the help or advice of other household members.
2. You answer all of the questions.
3. You complete and return the questionnaire within one week.

When you have completed the questionnaire just drop it in the mail. It is self-addressed and the postage is paid. Your answers will be held in strict confidence.

Thank you in advance.



1. Check all of the 1977 Minnesota licenses you purchased for your own use.

- | | | |
|---|---|---|
| <input type="checkbox"/> Deer Firearms | <input type="checkbox"/> Bear | <input type="checkbox"/> Fishing - Individual |
| <input type="checkbox"/> Deer Bow and Arrow | <input type="checkbox"/> Trapping - General | <input type="checkbox"/> Wild Ricing |
| <input type="checkbox"/> Small Game | <input type="checkbox"/> Trapping - Beaver | <input type="checkbox"/> Spearing |
| <input type="checkbox"/> Federal Duck Stamp | <input type="checkbox"/> Fishing - Husband and Wife | <input type="checkbox"/> Fish House |
| <input type="checkbox"/> Minnesota Duck Stamp | | |

2. Check the game species you hunted in Minnesota in 1977.

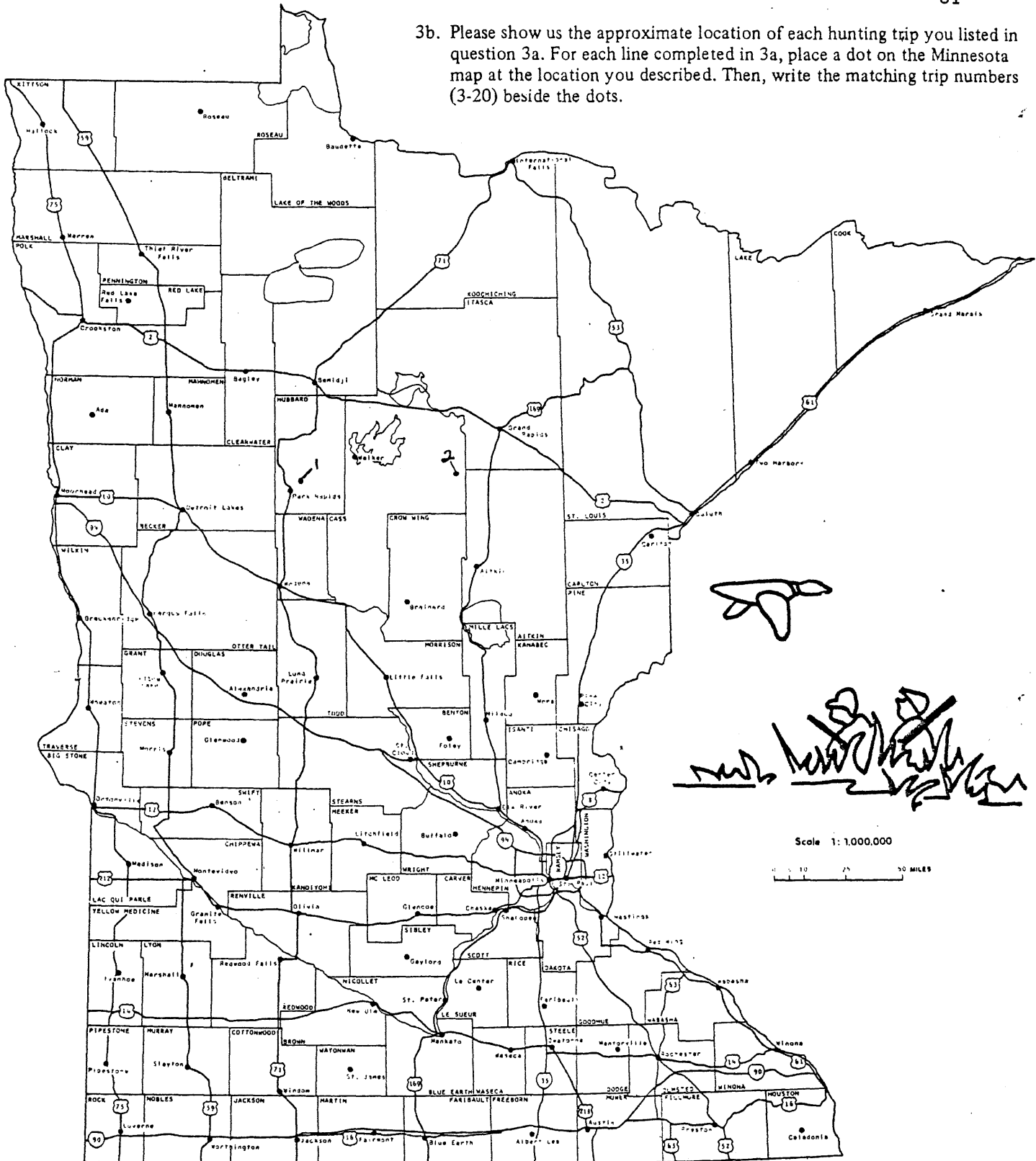
- | | | | |
|--|-----------------------------------|----------------------------------|--|
| <input type="checkbox"/> Moose | <input type="checkbox"/> Bear | <input type="checkbox"/> Fox | <input type="checkbox"/> Pheasants |
| <input type="checkbox"/> Deer (muzzleloader) | <input type="checkbox"/> Ducks | <input type="checkbox"/> Raccoon | <input type="checkbox"/> Ruffed or Spruce Grouse |
| <input type="checkbox"/> Deer (other firearms) | <input type="checkbox"/> Geese | <input type="checkbox"/> Bobcat | <input type="checkbox"/> Sharptail Grouse |
| <input type="checkbox"/> Deer (bow and arrow) | <input type="checkbox"/> Woodcock | <input type="checkbox"/> Lynx | <input type="checkbox"/> Hungarian Partridge |
| <input type="checkbox"/> Other _____ | | | |

PLEASE SPECIFY

- 3a. Please tell us about your hunting trips in Minnesota during 1977. The first example on line one is a hunt for ruffed grouse and deer using a firearm. It was in Hubbard County and two days were spent away from home. One day was a weekday and one was a weekend day. The hunter killed one deer and two grouse on the hunt. The example on line two was a duck hunt 12 miles west of Hill City. The hunt lasted only one day, a weekend day, and no ducks were taken by the hunter. As best you can recall, please complete one line for each hunt you took in Minnesota in 1977. If you hunted in a group, record only your hunting.

	Species Hunted	Location	Days Away From Home		Number of Each Species You Bagged
			Weekdays	Weekend days	
1.	<u>Ruffed Grouse/Deer</u>	<u>Hubbard Co.</u>	<u>1</u>	<u>1</u>	<u>Deer - 1 / Grouse - 2</u>
2.	<u>Ducks</u>	<u>12 mi. W of Hill City</u>		<u>1</u>	<u>Ducks - 0</u>
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					

3b. Please show us the approximate location of each hunting trip you listed in question 3a. For each line completed in 3a, place a dot on the Minnesota map at the location you described. Then, write the matching trip numbers (3-20) beside the dots.



4. What types of information would you most like to have presented on a free, voluntary hunter education program? (Please check all that apply.)

- | | | |
|---|--|--|
| <input type="checkbox"/> Outdoor Survival | <input type="checkbox"/> Plant Identification | <input type="checkbox"/> Firearms Care |
| <input type="checkbox"/> Hunting Ethics | <input type="checkbox"/> Outdoor Equipment | <input type="checkbox"/> Wildlife Management |
| <input type="checkbox"/> Hunting Safety | <input type="checkbox"/> Game Cooking | <input type="checkbox"/> Where to Hunt |
| <input type="checkbox"/> Game Habits | <input type="checkbox"/> Wildlife Habitat Requirements | <input type="checkbox"/> Trapping Techniques |
| <input type="checkbox"/> Hunting Techniques | <input type="checkbox"/> Game Species Identification | <input type="checkbox"/> Wildfood Gathering |
| <input type="checkbox"/> Hunting Laws | <input type="checkbox"/> Non-game Species Identification | <input type="checkbox"/> Other _____ |

5. How would you prefer to have that program made available to you? (Check only one.)

(CONTINUED ON OTHER SIDE)

- | | | | | | |
|--|---|---|---|--------------------------------------|---|
| <input type="checkbox"/> one-day seminar | <input type="checkbox"/> weekend workshop | <input type="checkbox"/> evening meetings | <input type="checkbox"/> television program | <input type="checkbox"/> film series | <input type="checkbox"/> published literature |
|--|---|---|---|--------------------------------------|---|

6. If the program you described in questions 4 and 5 were made available, would you take advantage of it?

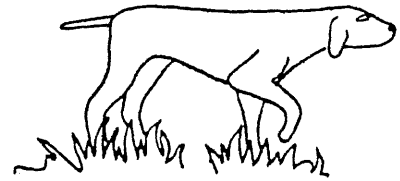
1 ☐ 2 ☐ 3 ☐ 4 ☐ 5 ☐ ☐
 Definitely Would Not Definitely Would Don't Know

- 7a. Do you need more of the following target ranges?

Skeet and Trap no ☐ yes ☐
 Rifle no ☐ yes ☐
 Archery no ☐ yes ☐
 Handgun no ☐ yes ☐

- 7b. If yes, how far would you be willing to drive to use one?

_____ mile(s)
 _____ mile(s)
 _____ mile(s)
 _____ mile(s)



- 8a. Do you need more areas to train a hunting dog? If yes, please answer questions 8b. and 8c.

yes ☐ no ☐ don't know ☐

8b. How many miles would you drive to use the area? _____ mile(s)

8c. Circle the month(s) that you would be most likely to use the area.

Jan. Feb. Mar. Apr. May Jun. Jul. Aug. Sep. Oct. Nov. Dec.

- | | Big Game | \$0 | \$1.00 | \$2.00 | \$5.00 | \$10.00 | \$20.00+ |
|---|--------------|-----|--------|--------|--------|---------|----------|
| 9. What daily fee would you expect to pay to hunt each of these types of game on private land? (Circle amount.) | Upland Birds | \$0 | \$1.00 | \$2.00 | \$5.00 | \$10.00 | \$20.00+ |
| | Waterfowl | \$0 | \$1.00 | \$2.00 | \$5.00 | \$10.00 | \$20.00+ |
| | Small Game | \$0 | \$1.00 | \$2.00 | \$5.00 | \$10.00 | \$20.00+ |

10. If you currently lease property on which you hunt, please check the types of game you hunt on that land. ☐ Big Game ☐ Upland Birds ☐ Waterfowl ☐ Small Game

11. If you currently own property on which you hunt, please check the types of game you hunt on that land. ☐ Big Game ☐ Upland Birds ☐ Waterfowl ☐ Small Game

12. Have you ever earned a Minnesota firearms safety certificate? yes ☐ no ☐ don't know ☐

13. How many sportsman or conservation clubs do you belong to? (Circle the number.) 0 1 2 3 4 5 6+

14. What is your favorite species to hunt? _____

15. If there is a limit on your favorite species, how important is it to take that limit?

1 ☐ 2 ☐ 3 ☐ 4 ☐ 5 ☐ ☐
 Very Important Not Very Important Don't Know

16. Do you hunt as much as you would like to? yes ☐ no ☐ don't know ☐

17. I would hunt more if — ☐ I had more time ☐ there were more access to private land ☐ bag limit were higher
 (Check the most ☐ public lands were less crowded ☐ public lands were closer ☐ seasons were longer
 important reasons.) ☐ private lands were less crowded ☐ family relationships allowed it ☐ it cost less

18. What type of a job do you think the Department of Natural Resources is doing in providing hunting opportunities?

1 ☐ 2 ☐ 3 ☐ 4 ☐ 5 ☐ ☐
 Excellent Poor Don't Know

19. If the state's provision of hunting opportunities could be improved, what would you say would be the most important improvement?

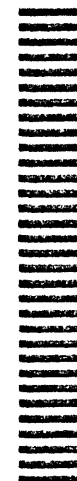
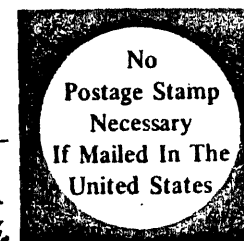
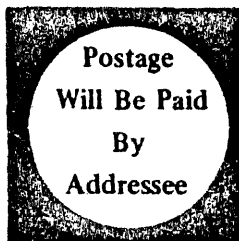
20. When you go on a hunting trip, how important is the observation of non-game wildlife to your enjoyment of the trip?

1 ☐ 2 ☐ 3 ☐ 4 ☐ 5 ☐ ☐
 Very Important Not Very Important Don't Know

21. Would you participate in a voluntary trapper education program if it were made available to you? yes ☐

no ☐ don't know ☐

Please write any comments you have below.

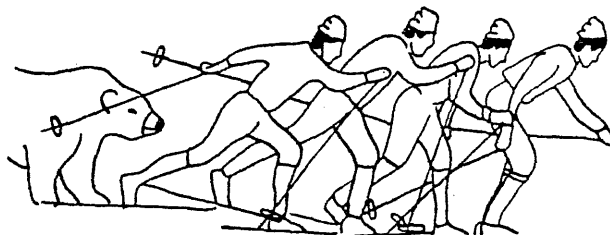


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RECREATION RESEARCH
BOX 11
DEPARTMENT OF NATURAL RESOURCES
CENTENNIAL BUILDING
ST. PAUL, MINNESOTA 55155

Appendix D

Cross-Country Skier Questionnaire



Recreation Research
Department of Natural Resources
St. Paul, Minnesota 55155

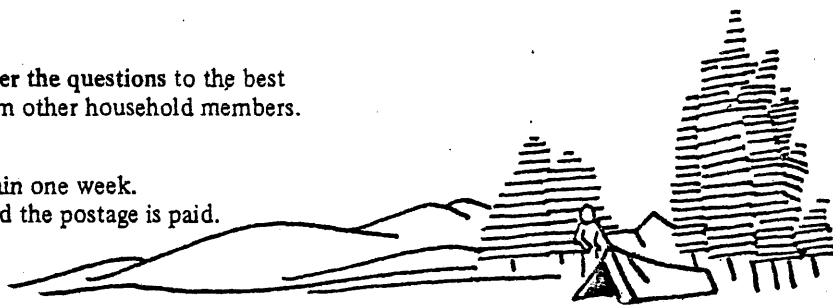
Dear Cross-Country Skier:

The Minnesota Department of Natural Resources and your legislature are sponsoring a large-scale outdoor recreation study. The purpose of the study is to help outdoor recreation planners and legislators better understand the needs and wants of Minnesota residents. You may recall that a member of your household was recently interviewed by phone. During the interview, we noted you are a cross-country skier. This activity is a vital portion of the study. By answering the questions below you can influence the people who make decisions on facilities and opportunities for cross-country skiing in Minnesota.

In completing this questionnaire, it is important that:

1. The person to whom this packet is addressed answer the questions to the best of his or her ability without the help or advice from other household members.
2. All of the questions be answered.
3. The questionnaire be completed and returned within one week.
Just drop it in any mail box. It is self-addressed and the postage is paid.

Thank you in advance for your opinions.



- 1a. Do you feel you have a need for the development of additional cross-country skiing trail areas? ☐ Yes ☐ No
- 1b. If yes, which one statement best describes the one type of additional trail area that would best meet your needs?

<input type="checkbox"/> a trail area designed for short ski outings.	<input type="checkbox"/> a trail area designed for full day ski outings.
<input type="checkbox"/> a trail area designed for skiers spending two or three days at the area.	
- 1c. How far from your home could the area you checked above be, and still meet your needs? _____ mile(s)
2. Would you be willing to spend one Saturday a year working to construct or maintain a cross-country skiing trail that you use?

<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Don't know
------------------------------	-----------------------------	-------------------------------------
3. Should rest shelters be developed along cross-country skiing trails? ☐ Yes ☐ No ☐ Don't know
- 3b. If yes, how many miles should there be between shelters? _____ mile(s)
4. How do you feel state sponsored cross-country skiing trails should be paid for?

<input type="checkbox"/> general taxes	<input type="checkbox"/> yearly licenses to use state sponsored trails	<input type="checkbox"/> special use fee paid at trail head
<input type="checkbox"/> a decal purchased and applied to skis used on state trails	<input type="checkbox"/> cross-country ski equipment taxes	<input type="checkbox"/> other _____
5. How many hours would you say your average cross-country skiing outing lasts? _____ hour(s)
6. How many miles do you usually cover in that time period? _____ mile(s)
7. In the average year, how many cross-country skiing outings do you take? _____ cross-country skiing outing(s)
8. How many of these outings would normally be on a groomed, marked trail? _____ cross-country skiing outing(s)
9. How many years have you been cross-country skiing? _____ year(s) cross-country skiing
10. When you go cross-country skiing, which type of group do you usually go with? ☐ alone ☐ family ☐ friends

11. If you were using a trail that was also being used by the types of users below, how would each type of user affect your decision to return to that trail at a later date?

	1 Definitely Would Not Return	2	3	4	5 Definitely Would Return
cross-country skiers	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
snowshoers	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

	1 Definitely Would Not Return	2	3	4	5 Definitely Would Return
off-road vehicle users (4-wheel drives)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
snowmobilers	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
dog sledders	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

12. How many times do you think you could ski the same trail during one season and not have your enjoyment decrease? (circle the number) 1 2 3 4 5 6 7 8 9 10+
13. As a public agency we must provide for all levels of experience and skill. Please check the one item from each of the four groups below that describes your skiing habits.

- 13a. ☐ I seldom ski over 5 miles during a single day.
☐ Under good conditions, I comfortably ski 5-10 miles in a day.
☐ Under good conditions, I comfortably ski 10-15 miles in a day.
☐ Under good conditions, I comfortably ski 15-30 miles in a day.

- 13b. ☐ I don't enjoy breaking trail, usually let others prepare track.
☐ I enjoy making tracks through unbroken snow.

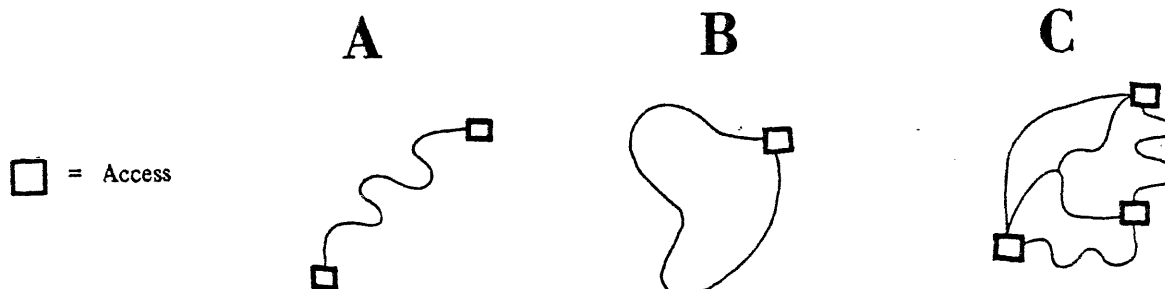
- 13c. ☐ I most often choose trails with gentle hills.
☐ I most often choose trails with moderate hills.
☐ I most often choose trails with steep hills.

- 13d. ☐ I avoid trails with narrow twisting downhill run.
☐ I look for trails with narrow twisting downhill run.

14. What is the longest distance that you have skied in a single day? _____ mile(s)
15. Have you ever camped out during the winter in Minnesota in a tent or similar shelter (i.e., other than in a trailer or vehicle)? ☐ Yes ☐ No
16. What other activities do you usually enjoy doing while you are on a cross-country skiing outing? (Check all you usually do)
- | | | |
|--|--------------------------------------|--|
| <input type="checkbox"/> picnicking | <input type="checkbox"/> hunting | <input type="checkbox"/> fishing |
| <input type="checkbox"/> camping | <input type="checkbox"/> racing | <input type="checkbox"/> visiting friends |
| <input type="checkbox"/> nature observations | <input type="checkbox"/> bar hopping | <input type="checkbox"/> meeting new friends |
17. What is the biggest gripe you have about your Minnesota cross-country skiing outings? _____
18. Do you have a distance you try to ski each week? ☐ Yes ☐ No
 If yes, how far is that distance per week? _____ mile(s)

We have asked you about your need for additional cross-country skiing areas and your general cross-country skiing experiences. Now we would like you to closely describe your most needed cross-country skiing trail.

19. Approximately how many miles long would your most needed cross country skiing trail be? _____ mile(s)
20. Circle the letter above the map which looks most like your most needed cross-country skiing area. (Consider the trail length between accesses as that distance you listed in question 19.)



21. Would you like to have your most needed cross-country skiing area patrolled by law enforcement officers?
☐ Yes ☐ No

CONTINUED ON OTHER SIDE

22. Would you like to have your most needed cross-country skiing area patrolled by a ski patrol offering assistance and first aid? ☐ Yes ☐ No

23. For each statement listed below, check the box to the right which best expresses your feelings about the statement.

My most needed cross-country skiing trail would:

	1 Strongly Agree	2 Agree	3 Neutral	4 Disagree	5 Strongly Disagree
Pass through hilly terrain.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Pass through open areas where I can leave the trail awhile.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Take me along a river or stream.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Pass through a state forest recreation area.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Bring me back to my starting point.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Require me to break the trail.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Have tent campsites located along the trail.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Have warming huts and toilets along the trail.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Have small cabins available for overnight stays.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Allow all types of uses (snowmobiling, cross-country skiing, snowshoeing for example) along the same segments.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Provide parallel but separate paths for different uses.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

My most needed cross-country skiing trail would:

	1 Strongly Agree	2 Agree	3 Neutral	4 Disagree	5 Strongly Disagree
Have learning experiences and displays along the trail.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Take me along a lake shore.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Connect major recreation areas such as county parks, state parks, and state forests.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Be a groomed trail.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Pass mostly through forests or woods.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Offer a good chance to view wildlife.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Pass primarily through open fields and meadows.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Be marked by frequent signs.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Have no signs marking the trail but a self-guiding map available.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Be located in a city park.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Be in a resort area.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Be in a wilderness-like area.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

24. How old are you? _____ years

25. How many total years of grade school, high school, and college have you completed? _____ year(s)

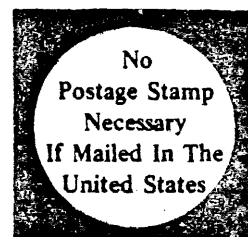
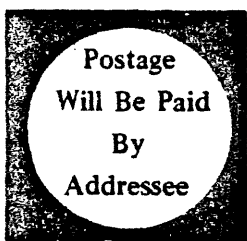
26. What is your occupation? _____

27. Do you have any comments? _____

Thank you for your assistance.

The Minnesota Department of Natural Resources.

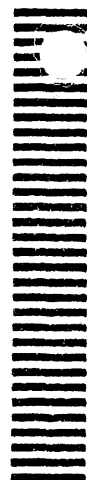
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RECREATION RESEARCH
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Appendix E

Snowmobiler Questionnaire

Dear Snowmobiler:

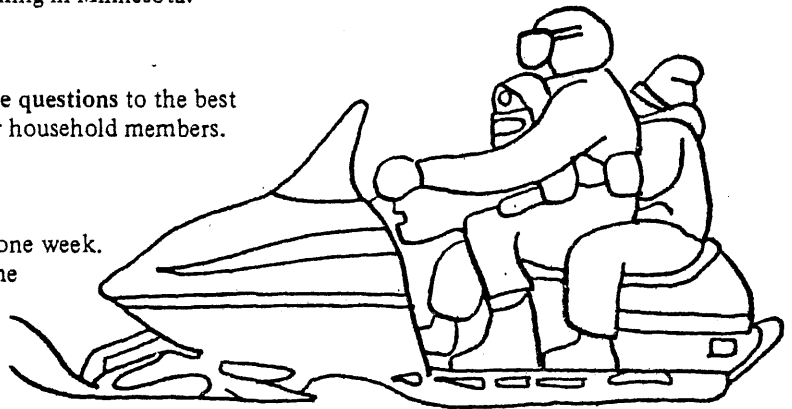


Recreation Research
Department of Natural Resources
St. Paul, Minnesota 55155

The Minnesota Department of Natural Resources and your legislature are sponsoring a large-scale outdoor recreation study. The purpose of the study is to help outdoor recreation planners and legislators better understand the needs and wants of Minnesota residents. You may recall that a member of your household was recently interviewed by phone. During the interview, we noted you are a snowmobiler. This activity is a vital portion of the study. By answering the questions below you can influence the people who make decisions on facilities and opportunities for snowmobiling in Minnesota.

In completing this questionnaire, it is important that:

1. The person to whom this letter is addressed answer the questions to the best of his or her ability without help or advice from other household members.
2. All of the questions be answered.
3. The questionnaire be completed and returned within one week. Just drop it in any mail box. It is self-addressed and the postage is paid.



Thank you in advance for your opinions.

- 1a. Do you feel additional snowmobiling trail areas should be developed? ☐ Yes ☐ No
- 1b. If yes, which one statement best describes the one type of additional trail area that would best meet your needs?
 - ☐ a trail area designed for short snowmobile outings.
 - ☐ a trail area designed for full day snowmobile outings.
 - ☐ a trail area designed for snowmobilers spending two or three days at the area.
- 1c. How far from your home could the area you checked above be, and still meet your needs? _____ mile(s)
2. Would you be willing to spend one Saturday a year working to construct or maintain a snowmobile trail that you use?
 - ☐ Yes ☐ No ☐ Don't know
- 3a. Should rest shelters be developed along snowmobiling trails? ☐ Yes ☐ No ☐ Don't know
- 3b. If yes, how many miles should there be between shelters? _____ mile(s)
4. How do you feel snowmobiling areas should be paid for?
 - ☐ general taxes ☐ yearly use permits ☐ special use fee paid at trail head
 - ☐ gasoline tax ☐ snowmobile equipment taxes
 - ☐ other _____
5. How many hours would you say your average snowmobiling outing lasts? _____ hour(s)
6. How many miles do you usually cover in that time period? _____ mile(s)
7. In the average year, how many snowmobiling outings do you take? _____ snowmobiling outing(s)
8. How many of these outings would normally be on a groomed, marked trail? _____ snowmobiling outing(s)
9. How many years have you been snowmobiling? _____ year(s) snowmobiling
10. When you go snowmobiling, which type of group do you usually go with? ☐ alone ☐ family ☐ friends

11. If you were using a trail area that was also being used by the types of users below, how would each type of user affect decision to return to that trail at a later date?

	1 Definitely Would Not Return	2	3	4	5 Definitely Would Return		1 Definitely Would Not Return	2	3	4	5 Definitely Would Return
cross-country skiers	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	off-road vehicle users (4-wheel drives)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
snowshoers	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>						
dog sledders	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	snowmobilers	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

12. How many times do you think you could snowmobile the same trail during one season and not have your enjoyment decrease? (circle the number)
- | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|-----|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10+ |
|---|---|---|---|---|---|---|---|---|-----|

13. What other activities do you usually do while you are on a snowmobiling outing?

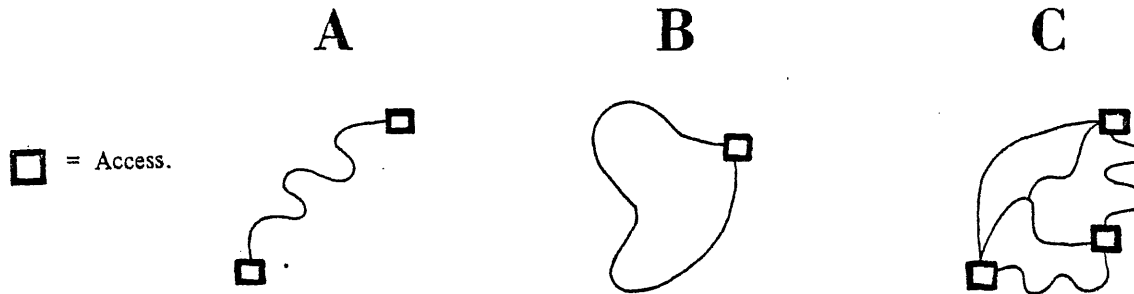
<input type="checkbox"/> picnicking	<input type="checkbox"/> hunting	<input type="checkbox"/> meeting new friends
<input type="checkbox"/> camping	<input type="checkbox"/> fishing	<input type="checkbox"/> racing
<input type="checkbox"/> nature observation	<input type="checkbox"/> visiting friends	<input type="checkbox"/> bar hopping

14. We have asked you about your need for additional snowmobiling areas and your general snowmobiling experiences. Now we would like you to closely describe your **most needed** snowmobiling trail. For each statement listed below, check the box to the right which best expresses your feelings about the statement.

My most needed snowmobiling trail would:						My most needed snowmobiling trail would:					
	1 Strongly Agree	2 Agree	3 Neutral	4 Disagree	5 Strongly Disagree		1 Strongly Agree	2 Agree	3 Neutral	4 Disagree	5 Strongly Disagree
Pass through hilly terrain.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Be marked by frequent signs.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Pass through open areas where I can leave the trail awhile.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Have no signs marking the trail, but a self-guiding map available.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Take me along a river or stream.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Have educational and informational displays along the trail.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Pass through a state forest recreation area.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Take me along a lake shore.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Bring me back to my starting point.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Pass by taverns.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Require me to break the trail.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Connect major recreation areas such as county parks, state parks and state forests.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Have tent campsites located along the trail.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Be a groomed trail.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Have warming huts and toilets along the trail.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Connect urban areas.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Have small cabins available for overnight stays.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Pass mostly through forests or woods.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Allow all types of uses along the same trail.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Offer a good chance to view wildlife.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Provide separate paths for different uses.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Be located in a city park.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Pass primarily through open fields—meadows.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Be in a resort area.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
						Be in a wilderness-like area.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

CONTINUED ON OTHER SIDE

15. Approximately how many miles long would your most needed snowmobiling trail be? _____ mile(s)
16. Circle the letter above the map which looks like your most needed snowmobiling trail. (Consider the trail length between accesses as that distance you listed in question 15.)



17. Would you like to have your most needed snowmobiling area patrolled by law enforcement officers?
☐ Yes ☐ No
18. Would you like to have your most needed snowmobiling area patrolled by people offering assistance and first aid?
☐ Yes ☐ No
19. What is the biggest gripe you have about your Minnesota snowmobiling? _____

20. How old are you? _____ years
21. How many total years of grade school, high school, and college have you completed? _____ year(s)
22. What is your occupation? _____
23. Do you have any comments? _____
- _____
- _____
- _____
- _____

Thank you for your assistance.

The Minnesota Department of Natural Resources.

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