

# Minnesota Department of Natural Resources 1998 North Central Lakes Boating Study

Summer (May 9, 1998—September 7, 1998)

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Prepared for:

Minnesota Department of Natural Resources  
Bureau of Information and Education  
Division of Fish and Wildlife  
Trails and Waterways Unit

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— CONSULTANTS' REPORT —

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## I. INTRODUCTION

**A. Background.** The Minnesota Department of Natural Resources (DNR) contracted to conduct a study of North Central MN boating from mid May to Labor Day 1998. The North Central MN boating study results will provide information to several DNR state programs, Table 1 lists some of these. The boating study involved boater interviews and launched boat counts derived from aerial photographs.

	Study will provide information to:
1.	DNR's water access programs
2.	DNR's boating safety programs
3.	DNR's fishery programs

Table 1: Programs That May Use Boating Data

**B. Purpose.** This document provides the detailed results of the North Central MN Boating Study. Descriptions of the methods, dates, and procedures are included. The data analysis for the aerial boat counts (including public & private access parking) is provided in Results 1-1 & 1-2. The lakes and flight worksheets are contained in Enclosures 1-1 through 4-1 and Worksheets 1-1 through 12-5. The questionnaires are included in Appendices I-IV. The data analysis for each of the surveys is provided in Appendix V.

**C. Goals.** The DNR desired to determine the level and type of boating activity on North Central MN lakes. This study provides accurate data and presents the results in a useful format for making informed decisions. Table 2 lists the goals of the project.

	Goal
1.	measure the quantity and source of boating use on North Central MN lakes
2.	measure boater characteristics and attitudes concerning their experience on the water

Table 2: Program Goals

## II. METHODOLOGY DESCRIPTION

**A. Introduction.** Data were collected using three types of instruments: (1) boat counts using aerial photographs, (2) hand-off survey questionnaires, and (3) mailout surveys.

**B. Project Tasks.** The following project tasks were completed for this program. Figure 1 illustrates a block diagram or flow chart of the seven project tasks. Table 3 lists each of the seven tasks and provides a brief description of the method used to meet each requirement.

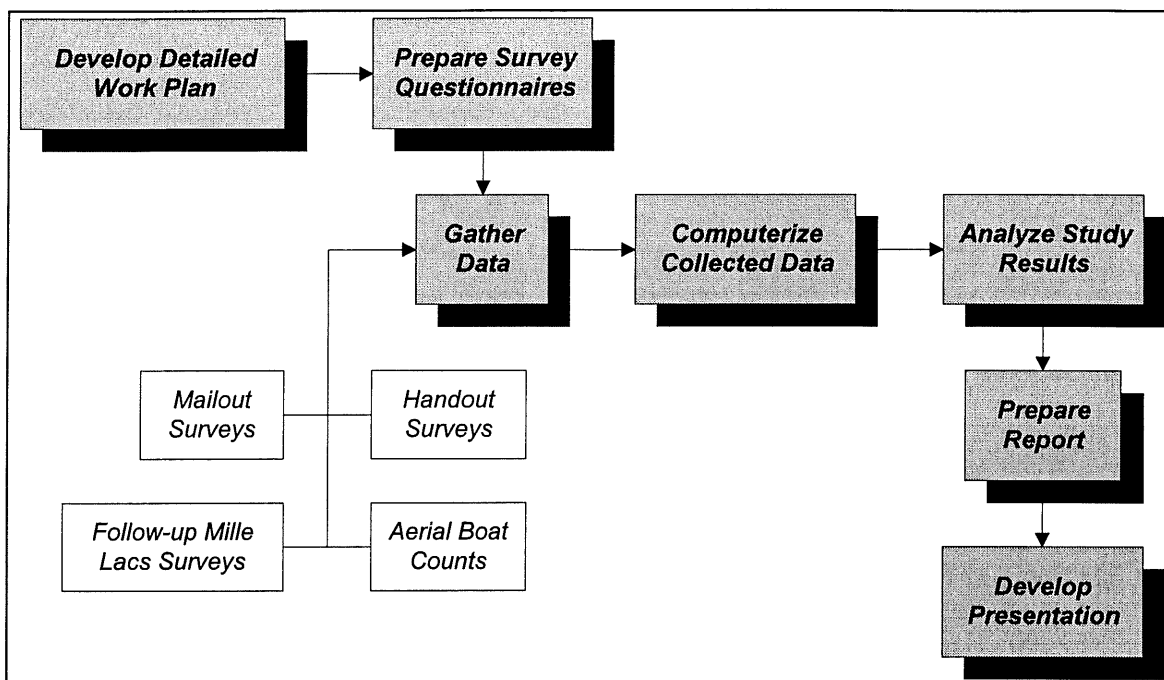


Figure 1: Block Diagram of the Project Process

Task	ThomTech Method of Completing Task
<b>Detailed Work Plan</b>	A detailed work plan was completed reflecting the exact procedures to be used for completing project. The plan included participation from the DNR staff.
<b>Rewrite Survey Questionnaire</b>	The sample questionnaires from previous DNR surveys were reviewed and modified as required. The project called for four surveys to be printed; (1) hand-off survey for public accesses, (2) hand-off survey for private resorts and campgrounds, (3) mailout survey for raparians (Mille Lacs only), & (4) mailout survey for raparians (all other lakes). Nine thousand surveys were printed and 4000 postcards. Table 4 provides the detailed number of surveys for each group.
<b>Gather Data</b>	The data were gathered as follows: 1. Measure total use by source of boater. For the aerial boat counts, there were 12 flights (8 weekend/holiday & 4 weekday), and 12 backup flights. During each flight, boats were counted using a manual counter, aerial photographs of each lake were taken, including public access parking, private marina parking, and marina slips. The 50 water bodies were divided into three geographical areas. The order of flight was randomly selected as to which area is overflown 1st, 2nd, and 3rd. Mille Lacs Lake constitutes one area and was overflown first on weekends and last on weekdays, as requested by the DNR. Within each geographical area, the order varied based on wind direction for that day. Because of the number of resorts and campgrounds, a sample was taken for counting boat trailers during the flights. The sample results are



Task	ThomTech Method of Completing Task
	expanded to population estimates in the analysis section (Results 1-1 & 1-2). A count of unoccupied slips was made on June 25 <sup>th</sup> , each sample resort and campground was contacted (once in June and once in September) on the number of boats for rent and the average number of boats that were rented on a weekday and a weekend. The lakes, public accesses, and sample resort & campgrounds are listed in Tables 5, 6, & 7. Table 8 provides the number of boats available for rent for each sample resort & campground. Table 8, also, provides the estimated number of boats (estimated and reported by the sample resort & campground, late June 98 and September 98) rented by weekday and weekend.
<b>Gather Data (continued)</b>	2. Measure boater experiences, perceptions, and characteristics by source of boater. The project required the distribution of the public & private access survey questionnaires (3000) and the mailing of the raparian survey questionnaires (2000). Thus, a total of 5,000 surveys were distributed. An additional 1000 surveys were handed out at Mille Lacs by DNR personnel. Names and addresses were collected, and a reminder postcard was mailed out within two days. Another survey was mailed to non-respondents after two-three weeks.
<b>Computerize Collected Data</b>	The survey response and the boat counts were tabulated in Microsoft Access and the data translated in Microsoft Excel for distribution to the DNR staff.
<b>Analyze Study Results</b>	An analysis of the data was accomplished working closely with the DNR project manager.
<b>Prepare Written Report</b>	A complete written report reflecting all of the data, analyses, and conclusions has been prepared. This document meets the requirements of this task.
<b>Deliver Oral Presentation</b>	A detailed oral presentation has been prepared. The presentation consists of slides that illustrate the study results.

Table 3: ThomTech's Method for Each Task

Group	Postcard	Survey	Followup	Total Survey
Public Access	1500	1500	750	2250
Public Access (DNR handout on Mille Lacs)	500	500	250	750
Private Access	1500	1500	750	2250
Private Access (DNR handout on Mille Lacs)	500	500	250	750
Lake Residents (Mille Lacs)	N/A	500	250	750
Lake Residents (other lakes)	N/A	1500	750	2250
Total	4000	6000	3000	9000

Table 4: Postcard and Survey Printing Requirements

#	Number	Name of Lake	category
1	480002	Mille Lacs	1
2	110305	Gull	1
3	110222	Margaret	1
4	180399	Nisswa	1
5	180398	Roy	1
6	110218	Upper Gull	1
7	180388	Love	1
8	110220	Ray	1
9	180310	Whitefish	1
10	180366	Arrowhead	1
11	180355	Bertha	1
12	180315	Big Trout	1
13	180356	Clamshell	1
14	180312	Cross	1
15	180271	Daggett	1
16	180269	Island	1
17	180266	Little Pine	1
18	180378	Lower Hay	1
19	180354	Pig	1
20	180311	Rush	1
21	180308	Pelican	1
22	110250	Ada	2-PA
23	180034	Bay	2-PA
24	101590	Farm Island	2-PA
25	180373	Round	2-PA
26	180251	Sandbar	2-PA
27	110304	Sylvan	2-PA
28	180020	Borden	2-PA
29	180038	Clearwater	2-PA
30	110120	Inguadona	2-PA
31	110162	Rice	2-PA
32	102040	Round	2-PA
33	110413	Ten Mile	2-PA
34	180375	Hubert	2-PA
35	110277	Big Deep	2-NPA
36	180374	Clark	3-PA
37	180203	Emily	3-PA
38	180185	Mary	3-PA
39	110167	Little Boy	3-PA
40	101170	Nord	3-PA
41	101360	Waukenabo	3-PA
42	101470	Esquagamah	3-PA
43	110232	Hattie	3-NPA
44	110296	Moccasin	3-PA
45	180227	O'Brien	3-NPA
46	110282	Mann	3-NPA
47	180296	Eagle	4-PA
48	101320	Hansen	4-PA

#	Number	Name of Lake	category
49	110009	Little Thunder	4-PA
50	110226	Loon	4-PA
51	180379	White Sand	4-PA
52	101700	Hanging Kettle	4-PA
53	180256	Bass	4-PA
54	110292	Pine	4-PA

**Table 5: List of Lakes in this Study**

#	Lake #	Lake Name	Grid	#pa	Map
1	110305	Gull	F3	3	Lower Cass
2	110305	Gull	F4	3	Lower Cass
3	110305	Gull	A4	3	Crow Wing
4	180310	Whitefish	A2	1	Crow Wing
5	180315	Big Trout	B2	1	Crow Wing
6	180356	Clamshell	B2	1	Crow Wing
7	180312	Cross	B2	2	Crow Wing
8	180312	Cross	C2	2	Crow Wing
9	180378	Lower Hay	A2	1	Crow Wing
10	180354	Pig	B2	1	Crow Wing
11	180308	Pelican	B3	4	Crow Wing
12	180308	Pelican	B3	4	Crow Wing
13	180308	Pelican	B3	4	Crow Wing
14	180308	Pelican	B3	4	Crow Wing
15	110250	Ada	C7	1	Upper Cass
16	180034	Bay	E5	1	Crow Wing
17	10159	Farm Island	A4	1	Aitkin
18	180373	Round	A4	1	Crow Wing
19	180251	Sandbar	C3	1	Crow Wing
20	110304	Sylvan	F4	1	Lower Cass
21	180020	Borden	E6	1	Crow Wing
22	180038	Clearwater	D5	1	Crow Wing
23	110120	Inguadona	D6	1	Upper Cass
24	10204	Round	A4	1	Aitkin
25	110413	Ten Mile	A6	1	Upper Cass
26	180375	Hubert	A4	1	Crow Wing
27	180374	Clark	A4	1	Crow Wing
28	180203	Emily	D2	1	Crow Wing
29	110167	Little Boy	D6	1	Upper Cass
30	10117	Nord	B4	1	Aitkin
31	10136	Waukenabo	B2	1	Aitkin
32	10147	Esquagamah	B2	1	Aitkin
33	110296	Moccasin	C5	1	Upper Cass
34	180296	Eagle	C1	1	Crow Wing
35	10132	Hansen	B3	1	Aitkin
36	110009	Little Thunder	F6	1	Upper Cass
37	110226	Loon	F3	1	Lower Cass

#	Lake #	Lake Name	Business	Count	6/98 Est.# Weekday	6/98 Est.# Weekend	9/98 Est.# Weekday	9/98 Est.# Weekend
1	110218	Upper Gull	Point Narrows Resort	14	4	12	4	14
2	110305	Gull	Cragun's Lodge	28	7	22	8	25
3	110305	Gull	Madden's Resort	17	5	14	5	15
4	110305	Gull	Grand View Lodge	10	5	10	5	10
5	110305	Gull	Gull & Love Lk Cpgd	2	1	2	1	2
6	110305	Gull	Causeway on Gull	20	10	17	10	15
7	110305	Gull	Gull Four Seasons	11	4	11	5	11
8	110305	Gull	Quarterdeck Resort	11	5	10	6	10
9	110305	Gull	Sandy Beach Resort	30	10	25	12	25
10	110305	Gull	Gull Lake Resort	8	4	8	5	8
11	110305	Gull	Boberg's Resort	0	0	0	0	0
12	180310	Whitefish	Boyd Lodge	10	5	8	5	10
13	180310	Whitefish	McGuire's Piney Ridge	6	2	6	2	5
14	180310	Whitefish	Driftwood Family Resort	14	4	10	5	12
15	180310	Whitefish	Kilworry Resort	20	8	15	5	15
16	180355	Bertha	Sunset Knoll Resort	11	5	10	5	10
17	180308	Pelican	Breezy Point Resort	30	12	20	10	20
18	180308	Pelican	Hart's RV/Motorhome	0	0	0	0	0
19	10159	Farm Island	Farm Island Lake Resort	6	2	5	2	5
20	10159	Farm Island	Ruby's Lakeview Resort	10	3	8	5	10
21	110304	Sylvan	Kavanaugh's	25	10	15	10	20
22	110413	Ten Mile	Quietwoods Campground	8	2	8	3	8
23	110413	Ten Mile	Happiness Resort	9	4	8	5	8
24	110413	Ten Mile	Pewick's Kenfield Resort	6	2	5	1	5
25	180034	Bay	Rutger's Bay Lake Lodge	35	15	25	15	30
26	180034	Bay	Dalois Campgrounds	3	1	3	1	3
27	180375	Hubert	Beachland Cottages	10	3	6	5	10
28	110232	Hattie	Tuck-A-Way Resort	3	1	3	1	3
29	110232	Hattie	Rest-In-The-Pines Resort	0	0	0	0	0
30	110282	Mann	Wildwood Beach Resort	7	3	5	2	5
31	180203	Emily	Lake Emily Resort	5	2	5	3	5
32	180203	Emily	Little Pine RV Park	0	0	0	0	0
33	180203	Emily	Birch Beach Resort & RV	5	2	4	1	5
34	110167	Little Boy	Little Boy Resort	4	2	4	2	4
35	180374	Clark	Minnewawa Lodge	15	5	10	5	12
36	110226	Loon	Rager's Acres	5	1	3	0	3
37	110226	Loon	Loon Lake Tavern & Resort	3	1	2	0	2
38	180256	Bass	Pine Crest Resort	0	0	0	0	0

**Table 8: List of Number of Boats Available for Rent & Estimates for Weekday & Weekend**

### III. PROCEDURES

**A. Flights.** The flights originated from Surfside Airbase on Rice Lake off Highway 49. The flight proceeded with the daily flight schedule based on Mille Lacs Lake first for weekends and Mille Lacs Lake last for weekdays. The Gull or Whitefish chains were randomly flown based on wind direction. Table 9 provides the approximate time of day and starting place each flight for Mille Lacs and lakes other than Mille Lacs. The flight crew counted boats at each lake, took photos to facilitate identification of the type of boat and activity, counted trailers at designated public accesses & private accesses, and counted rental boats. The counts are reflected in worksheets 1-1 through 12-5. Boats, trailers, and rental boats for each flight date are recorded. As the plane flew over the lake, the boats were counted. The photographer took pictures with a 35 mm camera of the boats on the lake. Mille Lacs was divided into four quadrants (NW, SW, NE, SE). Counts were conducted by quadrant for Lake Mille Lacs. The average boat count by quadrant is NW=14.8%, SW=15.2%, NE=25.3%, SE=44.8%. Figure 2 provides a map of Mille Lacs and the quadrant boundaries. Table 10 provides the boat counts for each Mille Lacs quadrant by flight.

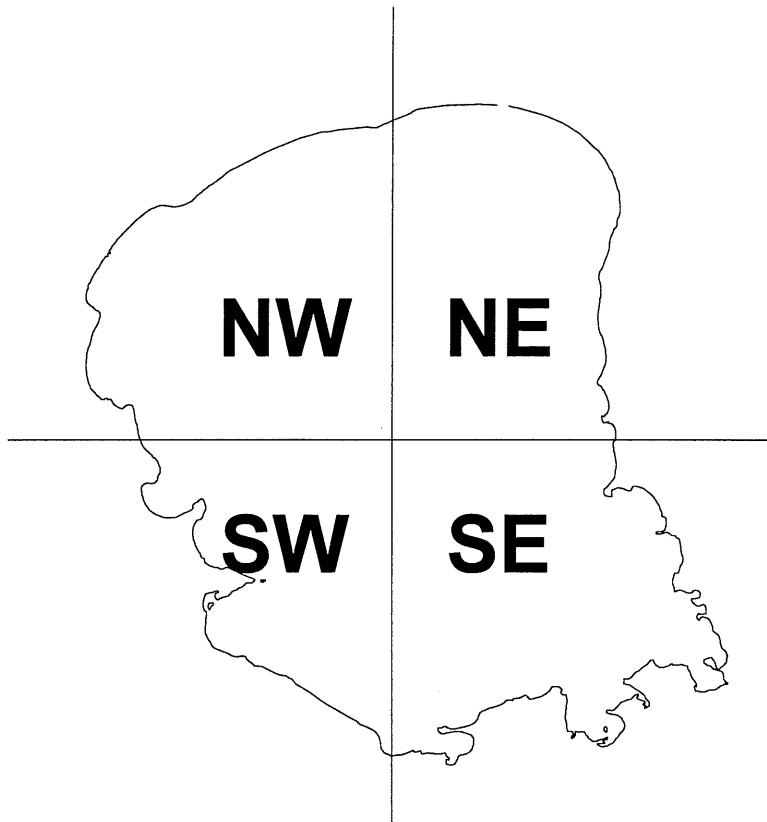


Figure 2: Mille Lacs & Four Quadrants

The boats were classified from the photographs as to type of boat and whether the boat was moving (wake) or not moving (no wake). If the boating traffic was small or there were only a few boats on the water that day, then the classification was accomplished during the flight and a photograph was not needed. At a minimum, at the end of each flight, the total boat count and the wake/no wake count was recorded for each flight. After developing the film, the boats on each lake were classified using the criteria described in Table 11. Each photograph was studied using a magnifying glass to determine type of boat, confirm the boat count, and confirm wake or no wake. The data was then entered into a table for each flight. Tables are provided in Worksheets 1-1 through 12-5.

WE = Weekend; WD = Weekday					
Date	Lake Group	Time Started	Time Ended	Place Started	Place Ended
5/9 WE	Mille Lacs	10:00	12:00	SW	NW
5/9 WE	All others	12:30	17:30	SE	SW
5/21 WD	Mille Lacs	16:00	18:00	NW	NE
5/21 WD	All others	12:00	15:00	SW	NE
5/25 WE	Mille Lacs	11:00	13:00	SE	NW
5/25 WE	All others	14:00	17:00	NE	SW
6/13 WE	Mille Lacs	11:00	13:00	SW	SE
6/13 WE	All others	14:00	17:00	SE	NW
6/21 WE	Mille Lacs	11:00	13:00	SE	NW
6/21 WE	All others	14:00	17:00	SE	NW
6/24 WD	Mille Lacs	16:00	18:00	SW	NE
6/24 WD	All others	12:00	15:00	NE	SW
7/12 WE	Mille Lacs	11:00	13:00	SE	NE
7/12 WE	All others	14:00	17:00	SW	NW
7/26 WE	Mille Lacs	11:00	13:00	NE	SW
7/26 WE	All others	14:00	17:00	SW	SE
7/29 WD	Mille Lacs	16:00	18:00	SE	NW
7/29 WD	All others	12:00	15:00	SE	SW
8/2 WE	Mille Lacs	11:00	13:00	SE	SW
8/2 WE	All others	14:00	17:00	SE	NE
8/23 WE	Mille Lacs	11:00	13:00	SW	NE
8/23 WE	All others	14:00	17:00	SE	NE
9/2 WD	Mille Lacs	16:00	18:00	SW	NW
9/2 WD	All others	12:00	15:00	SE	NW

**Table 9: Time & Place Start & End for Flights**

Quad	5/9	5/21	5/25	6/13	6/21	6/24	7/12	7/26	7/29	8/2	8/23	9/2	totals	%
SE	1543	202	251	205	94	67	95	62	33	70	77	20	2719	44.8%
SW	523	62	82	72	31	22	31	33	9	23	25	6	919	15.2%
NE	904	104	134	104	49	35	50	47	17	37	41	10	1532	25.3%
NW	510	62	83	68	29	21	30	29	11	22	24	6	895	14.8%
Total	3480	430	550	449	203	145	206	171	70	152	167	42	6065	100.0%

**Table 10: Mille Lacs Boat Counts by Quadrant**

Cruiser	Inboard/outboard motor, cabin and/or superstructure
Runabout	Inboard/outboard motor with windshield
Fishing boat	May or may not have motor or oars, no windshield
Sailboat	Sail, mast, may be a sailboard, may or may not have motor
Pontoon	Raft type boat with floatation tubes, may or may not have motor
Canoe/Kayak	Narrow watercraft using paddles or oars, pointed at both ends
Jetski	One or two person personal watercraft
Wake	Movement of boat leaving a noticeable wake
No wake	Boat underway, leaving no wake, at anchor or adrift

Table 11: Boat Type Criteria

**B. Counting Vehicles at Public Accesses.** After counting and photographing the boats, the plane flew over the parking areas and adjoining areas (overflow places where vehicles that use that access are parked) of the public accesses for each lake. The person with the counter, counted the vehicles capable of transporting a boat to the access that day. The majority of these vehicles were automobiles/trucks pulling a boat trailer. However, we also counted cars with car top carriers and trucks capable of transporting a boat to the access. Unattached boat trailers were not counted. The photographer took pictures of the access parking area and adjoining areas. If the areas were small or not crowded on that day, a picture was not always taken, because classification and counting was accomplished during the flight. Mille Lacs was excluded from this portion of the study.

**C. Counting Vehicles at Marina/Private Accesses.** The vehicles for the marinas/private accesses were counted the same way as the public access vehicles. This task proved to be more difficult because the resorts and campgrounds did not have clearly defined parking areas for boat trailers. In several instances, the parking areas were masked by the trees. The resorts and campgrounds were contacted and asked the location of the parking area for empty boat trailers resulting from boats launched at their private access. Each vehicle that could transport a boat was counted even if it wasn't parked in the area designated for the private access parking. Mille Lacs was excluded from this portion of the study.

There is no guarantee that the private access trailer counts reflect boats on the water at the time of the flight. The best interpretation is that the counts represent boats on the water sometime that day. DNR staff will estimate the portion of these daily boat trips that likely occurred during the time of the flight.

**D. Counting Rental Boats at Marinas.** The rental boats at resorts and campgrounds were also counted on each flight. The plane flew over the resort/campground and the photographer took a photograph of the boating area. After the film was developed, the number of rental boats were counted. As accurately as possible the number of empty buoys were also counted. On the morning of June 25<sup>th</sup>, the resorts and campgrounds were overflown and photographed to count the number of rental boats that were not occupied for the summer. The flight was flown in the morning on a weekday in late June as the best time to conduct a count with the fewest boats away from their slips. This number

was then used to compare with the rental boat count for each flight, thereby deriving the number of rental boats that contributed to the boat count for that flight. The counting of rental boats proved to be difficult with trees, method of boat storage, and counting from the air. In addition, and as a further check, each resort and campground was contacted in late June and September and asked how many boats they had for rent and what the average rental rate was for weekdays and weekends. This information has been provided in Table 8 (page 7). If the observed count proved to be higher from the estimated boat rental for that resort, the number was adjusted to be consistent with the estimate provided by the resort or campground. This information was used in computing the total rental boat count. Mille Lacs was excluded from this portion of the study.

There is no guarantee that the rental boat counts reflect boats on the water at the time of the flight. The best interpretation is that the counts represent boats on the water sometime that day. DNR staff will estimate the portion of these daily boat trips that likely occurred during the time of the flight.

**E. Surveys.** The survey distributors approached boaters that were ready to boat or just finishing with their boating trip and asked them if they would like to participate in the North Central MN Boating Study. Those boaters responding affirmatively were handed a survey and asked to fill out a reminder postcard with their name and address. The survey distributor kept a log book that recorded the lake, access, unique survey number, and date. At the end of each day, the postcards were photocopied and placed in the mail as a reminder to the boaters that were handed a survey. Although an exact number was not recorded, it is estimated that about 20-25% of the boaters approached by the survey distributors declined to participate in the study. If no response was received within two to three weeks, another survey with a stamped addressed envelope was mailed to the boater's address. The surveys for public access, resort & campground, and lakeshore residents for Mille Lacs and all other lakes are contained in Appendices I-IV. The results of the surveys are included in Appendix V.

The addresses for the resident surveys were provided by DNR. These addresses were sorted by category and assigned a serial number. The serial number was used to identify returned surveys by category and lake and to determine those residents that needed a reminder to complete their survey and send it in. A cover letter, survey, and self addressed stamped envelope were mailed to each of the randomly selected residents.

After three weeks we sent out another cover letter and survey to the residents who had not responded to the first query. We anticipated a 50% response rate and received slightly better than that. The resident surveys were mailed on the following dates: June 16, July 11, and August 9. Table 12 provides the number of responses for each of the four surveys. Approximately 4.2% return to sender rate was recorded.



Survey Type	Responses	Distributed	Percentage
Public Access Survey	851	1500	56.7%
Resort & Campground Survey	812	1500	54.1%
Resident Survey	995	1500	66.3%
Mille Lacs Public Access Survey	150	286	52.4%
Mille Lacs Resort & Campground Survey	125	235	53.2%
Mille Lacs Resident Survey	286	500	57.2%

**Table 12: Survey Distribution and Response Rate**

**C. Analysis.** Data were inputted using Microsoft Access. It was later translated into Microsoft Excel spreadsheet. The data analysis includes the response rates for each available answer for each question on all four surveys. The flights data for each of the flights were analyzed for source of boater and the results are contained in the Results 1-1 and Results 1-2. The results are computed for each category.

The resorts and campgrounds selected for this study represent a majority sample of the total number of resorts and campgrounds that could contribute boaters to each of the lakes. Table 13 provides sampling fractions for resorts & campgrounds provided by DNR. The expansion factor was used as a multiplier to inflate the number of trailers parked at resorts and campgrounds and the number of rental boats. The Results Section, immediately following page 11 has totals for inflated and not inflated numbers.

		Total	Total	Sample	Sample
	Expansion	Lodging Units	Number of	Lodging Units	Number of
Category	Factor(=B/D)	& Campsites	Operations	& Campsites	Operations
Column	A	B	C	D	E
Cat 1	1.22	1601	50	1308	18
Cat 2-PA	1.23	447	19	363	9
Cat 3-PA & NPA	1.26	218	13	173	8
Cat 4-PA	1.18	90	5	76	3
Total	1.23	2356	87	1920	38
Cat 3-NPA	1.20	54	4	45	3
Cat 3-PA	1.28	164	9	128	5

**Table 13: Sampling Fractions for Resorts & Campgrounds Provided by DNR**

The following items are appended to this report.

Results - Summary Contribution by Source of Boater

Enclosure 1 - Total Boat Counts each Flight

Enclosure 2 - Total Public Access Trailer Counts each Flight

Enclosure 3 - Total Resort & Campground Trailer Counts each Flight

Enclosure 4 - Total Rental Boat Counts each Flight

Worksheet 1 - 5/9/98 Aerial Count of Boats, Trailers, Rental Boats

Worksheet 2 - 5/21/98 Aerial Count of Boats, Trailers, Rental Boats  
Worksheet 3 - 5/25/98 Aerial Count of Boats, Trailers, Rental Boats  
Worksheet 4 - 6/13/98 Aerial Count of Boats, Trailers, Rental Boats  
Worksheet 5 - 6/21/98 Aerial Count of Boats, Trailers, Rental Boats  
Worksheet 6 - 6/24/98 Aerial Count of Boats, Trailers, Rental Boats  
Worksheet 7 - 7/12/98 Aerial Count of Boats, Trailers, Rental Boats  
Worksheet 8 - 7/26/98 Aerial Count of Boats, Trailers, Rental Boats  
Worksheet 9 - 7/29/98 Aerial Count of Boats, Trailers, Rental Boats  
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Worksheet 12 - 9/2/98 Aerial Count of Boats, Trailers, Rental Boats  
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Appendix III - Lakeshore Resident Boater Survey  
Appendix IV - Mille Lacs Lakeshore Resident Boater Survey  
Appendix V - Tabulation of Survey Results

# SUMMARY REPORT FOR AERIAL BOAT, TRAILER, RENTAL BOAT COUNTS

AERIAL BOAT COUNTS	9-May	21-May	25-May	13-Jun	21-Jun	24-Jun	12-Jul	26-Jul	29-Jul	2-Aug	23-Aug	2-Sep	Average
TOTAL FOR CAT 1 w/o Mille Lac	753	135	655	462	224	198	457	358	202	427	461	100	369.3
TOTAL CATEGORY 2-PA/2-NPA	375	60	283	219	134	121	131	179	133	192	188	46	171.8
TOTAL CATEGORY 3-PA/3-NPA	179	13	83	78	48	34	55	44	28	53	46	12	56.1
TOTAL CATEGORY 4-PA	53	11	32	38	14	7	20	20	17	30	12	5	21.6

PUBLIC ACCESS PARKING	9-May	21-May	25-May	13-Jun	21-Jun	24-Jun	12-Jul	26-Jul	29-Jul	2-Aug	23-Aug	2-Sep	Average
TOTAL FOR CAT 1 w/o Mille Lac	231	73	195	144	122	64	227	117	70	141	121	36	128.4
TOTAL CATEGORY 2-PA/2-NPA	145	18	85	44	41	21	31	58	38	32	30	8	45.9
TOTAL CATEGORY 3-PA/3-NPA	76	6	25	14	14	9	12	12	5	11	5	4	16.1
TOTAL CATEGORY 4-PA	31	1	11	11	8	0	9	10	9	13	3	3	9.1

PRIVATE PARKING (not inflated)	9-May	21-May	25-May	13-Jun	21-Jun	24-Jun	12-Jul	26-Jul	29-Jul	2-Aug	23-Aug	2-Sep	Average
TOTAL FOR CAT 1 w/o Mille Lac	208	26	165	135	90	37	116	67	44	73	41	16	84.8
TOTAL CATEGORY 2-PA/2-NPA	64	10	62	22	19	12	26	16	17	18	12	6	23.7
TOTAL CATEGORY 3-PA/3-NPA	53	3	29	13	17	6	11	12	6	11	12	5	14.8
TOTAL CATEGORY 4-PA	15	1	1	3	4	0	4	2	1	1	2	1	2.9

PRIVATE PARKING (Inflated)	9-May	21-May	25-May	13-Jun	21-Jun	24-Jun	12-Jul	26-Jul	29-Jul	2-Aug	23-Aug	2-Sep	Average
TOTAL CAT 1 (1.22)	254	32	201	165	110	45	142	82	54	89	50	20	103.5
TOTAL CAT 2-PA2-NPA (1.23)	79	12	76	27	23	15	32	20	21	22	15	7	29.1
TOTAL CAT 3-PA/3-NPA (1.26)	67	4	37	16	21	8	14	15	8	14	15	6	18.7
TOTAL CAT 4-PA (1.18)	18	1	1	4	5	0	5	2	1	1	2	1	3.4

EMPTY SLIPS (not inflated)	9-May	21-May	25-May	13-Jun	21-Jun	24-Jun	12-Jul	26-Jul	29-Jul	2-Aug	23-Aug	2-Sep	Average
TOTAL FOR CAT 1 w/o Mille Lac	150	36	125	115	52	69	117	93	86	108	99	42	91.0
TOTAL CATEGORY 2-PA/2-NPA	45	27	39	34	22	27	38	38	56	61	37	21	37.1
TOTAL CATEGORY 3-PA/3-NPA	16	10	11	10	13	18	11	12	13	14	14	5	12.3
TOTAL CATEGORY 4-PA	3	1	1	2	2	2	3	3	2	3	4	1	2.3

EMPTY SLIPS (inflated)	9-May	21-May	25-May	13-Jun	21-Jun	24-Jun	12-Jul	26-Jul	29-Jul	2-Aug	23-Aug	2-Sep	Average
TOTAL CAT 1 (1.22)	183	44	153	140	63	84	143	113	105	132	121	51	111
TOTAL CAT 2-PA2-NPA (1.23)	55	33	48	42	27	33	47	47	69	75	46	26	46
TOTAL CAT 3-PA/3-NPA (1.26)	20	13	14	13	16	23	14	15	16	18	18	6	15
TOTAL CAT 4-PA (1.18)	4	1	1	2	2	2	4	4	2	4	5	1	3

# SUMMARY REPORT FOR AERIAL BOAT, TRAILER, RENTAL BOAT COUNTS

% CONTRIBUTION - CAT 1	9-May	21-May	25-May	13-Jun	21-Jun	24-Jun	12-Jul	26-Jul	29-Jul	2-Aug	23-Aug	2-Sep	Average
PUBLIC ACCESS	30.7%	54.1%	29.8%	31.2%	54.5%	32.3%	49.7%	32.7%	34.7%	33.0%	26.2%	36.0%	37.1%
PRIVATE ACCESS	Data require further analysis prior to source estimation. Data are in terms of boats likely used the day of the flight & require an estimate of the portion of daily boat trips that occur during the flight. DNR will do this analysis.												
RENTAL BOATS													
ALL OTHERS													

% CONTRIBUTION - CAT 2-PA	9-May	21-May	25-May	13-Jun	21-Jun	24-Jun	12-Jul	26-Jul	29-Jul	2-Aug	23-Aug	2-Sep	Average
PUBLIC ACCESS	38.7%	30.0%	30.0%	20.1%	30.6%	17.4%	23.7%	32.4%	28.6%	16.7%	16.0%	17.4%	25.1%
PRIVATE ACCESS	Data require further analysis prior to source estimation. Data are in terms of boats likely used the day of the flight & require an estimate of the portion of daily boat trips that occur during the flight. DNR will do this analysis.												
RENTAL BOATS													
ALL OTHERS													

% CONTRIBUTION - CAT 3-PA	9-May	21-May	25-May	13-Jun	21-Jun	24-Jun	12-Jul	26-Jul	29-Jul	2-Aug	23-Aug	2-Sep	Average
PUBLIC ACCESS	42.5%	46.2%	30.1%	17.9%	29.2%	26.5%	21.8%	27.3%	17.9%	20.8%	10.9%	33.3%	27.0%
PRIVATE ACCESS	Data require further analysis prior to source estimation. Data are in terms of boats likely used the day of the flight & require an estimate of the portion of daily boat trips that occur during the flight. DNR will do this analysis.												
RENTAL BOATS													
ALL OTHERS													

% CONTRIBUTION - CAT 4-PA	9-May	21-May	25-May	13-Jun	21-Jun	24-Jun	12-Jul	26-Jul	29-Jul	2-Aug	23-Aug	2-Sep	Average
PUBLIC ACCESS	58.5%	9.1%	34.4%	28.9%	57.1%	0.0%	45.0%	50.0%	52.9%	43.3%	25.0%	60.0%	38.7%
PRIVATE ACCESS	Data require further analysis prior to source estimation. Data are in terms of boats likely used the day of the flight & require an estimate of the portion of daily boat trips that occur during the flight. DNR will do this analysis.												
RENTAL BOATS													
ALL OTHERS													

## 1998 North Central MN Boating Study

seq	DOW	Name													
#	Number	of Lake	category	9-May	21-May	25-May	13-Jun	21-Jun	24-Jun	12-Jul	26-Jul	29-Jul	2-Aug	23-Aug	2-Sep
1	480002	Mille Lacs	1	3480	430	550	449	203	145	206	171	70	152	167	42
2	110305	Gull	1	255	48	245	86	68	63	171	71	35	65	138	28
3	110222	Margaret	1	12	5	13	11	4	3	6	13	3	4	9	4
4	180399	Nisswa	1	5	2	5	6	5	0	0	5	4	2	3	1
5	180398	Roy	1	2	0	21	5	5	5	1	10	2	12	9	2
6	110218	Upper Gull	1	29	3	23	24	11	8	12	23	10	17	17	2
7	180388	Love	1	15	4	5	2	5	4	3	2	3	2	32	0
8	110220	Ray	1	5	1	3	8	6	4	8	2	1	3	8	1
9	180310	Whitefish	1	85	14	52	82	23	27	39	58	20	86	64	16
10	180366	Arrowhead	1	8	0	4	3	2	1	1	2	0	2	5	0
11	180355	Bertha	1	5	1	4	7	1	3	4	4	0	11	5	1
12	180315	Big Trout	1	36	5	18	24	9	9	20	18	15	19	15	8
13	180356	Clamshell	1	7	1	5	5	11	4	7	7	0	12	4	0
14	180312	Cross	1	80	13	96	51	20	17	24	36	30	52	46	9
15	180271	Daggett	1	5	4	23	13	3	4	2	12	7	17	2	1
16	180269	Island	1	15	0	13	7	2	2	4	3	10	5	3	0
17	180266	Little Pine	1	15	0	13	9	2	2	2	6	2	7	7	2
18	180378	Lower Hay	1	6	0	3	8	0	0	7	14	2	9	8	0
19	180354	Pig	1	0	1	6	4	0	4	3	5	10	7	6	1
20	180311	Rush	1	30	6	34	44	11	12	19	24	23	26	33	7
21	180308	Pelican	1	138	27	69	63	36	26	124	43	25	69	47	17
TOTAL FOR CATEGORY 1				4233	565	1205	911	427	343	663	529	272	579	628	142
TOTAL WITHOUT MILLE LACS				753	135	655	462	224	198	457	358	202	427	461	100
22	110250	Ada	2-PA	18	0	10	7	4	5	6	9	6	8	12	3
23	180034	Bay	2-PA	47	12	59	43	13	10	18	36	17	31	38	8
24	101590	Farm Island	2-PA	74	6	50	37	13	11	20	26	12	24	21	2
25	180373	Round	2-PA	60	11	20	21	8	6	18	10	4	12	10	6
26	180251	Sandbar	2-PA	10	1	18	11	10	6	11	19	6	17	22	4
27	110304	Sylvan	2-PA	21	5	23	14	6	10	6	8	5	10	8	1
28	180020	Borden	2-PA	20	2	16	18	7	3	7	11	8	7	9	0
29	180038	Clearwater	2-PA	26	1	19	7	8	8	9	8	7	5	9	4
30	110120	Inguadona	2-PA	23	5	12	11	11	3	8	3	2	6	7	4
31	110162	Rice	2-PA	3	1	0	2	4	0	0	0	0	2	1	0
32	102040	Round	2-PA	7	1	16	6	13	2	4	18	5	9	9	3
33	110413	Ten Mile	2-PA	48	10	15	19	24	17	9	10	13	20	21	9
34	180375	Hubert	2-PA	7	4	22	21	11	39	13	19	40	36	16	2
35	110277	Big Deep	2-NPA	11	1	3	2	2	1	2	2	8	5	5	0
TOTAL FOR CATEGORY 2				375	60	283	219	134	121	131	179	133	192	188	46

## 1998 North Central MN Boating Study

seq	DOW	Name													
#	Number	of Lake	category	9-May	21-May	25-May	13-Jun	21-Jun	24-Jun	12-Jul	26-Jul	29-Jul	2-Aug	23-Aug	2-Sep
36	180374	Clark	3-PA	3	0	7	3	2	4	3	1	4	7	3	0
37	180203	Emily	3-PA	28	3	5	8	7	5	2	4	1	4	4	4
38	180185	Mary	3-PA	11	0	2	8	0	3	4	6	0	2	6	2
39	110167	Little Boy	3-PA	39	5	17	15	19	7	10	10	7	6	11	1
40	101170	Nord	3-PA	15	1	12	4	2	1	3	1	1	5	2	2
41	101360	Waukenabo	3-PA	23	1	8	5	2	3	6	3	1	5	2	0
42	101470	Esquagamah	3-PA	26	1	10	15	5	3	8	6	0	10	4	0
43	110232	Hattie	3-NPA	22	2	11	4	3	5	6	5	4	3	6	1
44	110296	Moccasin	3-PA	2	0	3	8	1	1	2	1	4	2	2	0
45	180227	O'Brien	3-NPA	9	0	6	3	3	0	6	2	0	4	3	1
46	110282	Mann	3-NPA	1	0	2	5	4	2	5	5	6	5	3	1
TOTAL FOR CATEGORY 3				179	13	83	78	48	34	55	44	28	53	46	12
47	180296	Eagle	4-PA	10	2	3	9	4	2	3	1	1	6	4	1
48	101320	Hansen	4-PA	5	0	3	1	1	0	1	0	0	1	0	0
49	110009	Little Thunder	4-PA	5	0	1	1	0	0	0	0	0	1	2	0
50	110226	Loon	4-PA	3	1	1	5	2	0	2	11	1	1	1	0
51	180379	White Sand	4-PA	7	6	12	5	0	2	3	1	3	9	0	1
52	101700	Hanging Kettle	4-PA	18	0	5	9	2	0	1	2	3	4	1	1
53	180256	Bass	4-PA	5	2	5	6	4	2	6	5	5	6	2	2
54	110292	Pine	4-PA	0	0	2	2	1	1	4	0	4	2	2	0
TOTAL FOR CATEGORY 4				53	11	32	38	14	7	20	20	17	30	12	5

North Central MN Boating Study

#	Lake Name	9-May	21-May	25-May	13-Jun	21-Jun	24-Jun	12-Jul	26-Jul	29-Jul	2-Aug	23-Aug	2-Sep
1	Gull	44	19	15	19	21	5	24	6	5	10	23	3
2	Gull	30	8	35	16	37	5	10	9	9	14	11	0
3	Gull	37	7	35	26	8	8	12	18	3	11	18	3
4	Whitefish	15	10	6	9	2	0	6	5	1	1	1	3
5	Big Trout	12	0	6	7	0	3	4	1	3	6	6	2
6	Clamshell	0	0	2	1	2	2	2	1	0	2	0	0
7	Cross	6	2	6	6	2	1	5	24	19	8	5	2
8	Cross	30	16	27	19	21	14	28	7	3	35	23	5
9	Lower Hay	14	1	14	5	1	3	9	8	5	10	8	0
10	Pig	0	0	0	1	0	0	0	0	6	3	0	1
11	Pelican	25	2	1	8	4	2	3	3	2	6	3	1
12	Pelican	18	4	14	21	22	21	11	3	12	8	18	15
13	Pelican	0	3	30	0	0	0	86	30	2	25	0	1
14	Pelican	0	1	4	6	2	0	27	2	0	2	5	0
		231	73	195	144	122	64	227	117	70	141	121	36
15	Ada	6	0	1	0	1	0	0	1	0	3	0	0
16	Bay	15	2	12	7	3	0	4	5	10	5	9	0
17	Farm Island	26	1	10	6	11	5	2	15	2	5	2	1
18	Round	22	7	17	4	3	2	1	3	1	1	0	0
19	Sandbar	5	1	3	4	2	5	2	6	2	0	3	3
20	Sylvan	10	1	13	4	2	1	3	7	2	1	1	0
21	Borden	15	2	8	5	5	2	5	5	3	5	2	0
22	Clearwater	24	0	3	2	4	3	4	5	4	2	3	2
23	Inguadona	3	0	3	1	4	0	2	3	1	2	1	0
24	Round	4	0	5	2	5	0	4	1	5	4	2	0
25	Ten Mile	12	1	2	1	1	0	2	0	0	0	1	1
26	Hubert	3	3	8	8	0	3	2	7	8	4	6	1
		145	18	85	44	41	21	31	58	38	32	30	8
27	Clark	0	0	2	0	0	0	1	0	1	0	0	0
28	Emily	19	2	2	3	4	1	2	0	0	1	1	3
29	Little Boy	17	3	6	4	6	2	3	7	1	3	3	0
30	Nord	10	1	2	0	1	0	3	0	0	1	0	1
31	Waukenabo	15	0	4	1	1	3	0	0	0	1	0	0
32	Esquagamah	12	0	5	2	2	1	2	3	0	4	0	0
33	Moccasin	3	0	4	4	0	2	1	2	3	1	1	0
		76	6	25	14	14	9	12	12	5	11	5	4
34	Eagle	7	0	0	1	1	0	0	0	0	1	0	0
35	Hansen	4	0	1	2	1	0	1	0	0	1	0	0
36	Little Thunder	1	0	1	1	0	0	0	1	0	0	1	0
37	Loon	2	1	0	2	0	0	1	4	0	2	0	0
38	White Sand	3	0	2	1	0	0	0	0	0	2	0	0
39	Hanging Kettle	11	0	3	0	3	0	0	2	1	2	0	1
40	Bass	3	0	2	4	3	0	5	3	5	5	1	2
41	Pine	0	0	2	0	0	0	2	0	3	0	1	0
		31	1	11	11	8	0	9	10	9	13	3	3

North Central MN Boating Study

#	Lake Nam	Business	9-May	21-May	25-May	13-Jun	21-Jun	24-Jun	12-Jul	26-Jul	29-Jul	2-Aug	23-Aug	2-Sep
1	Upper Gull	Point Narrows Resort	5	1	4	3	4	1	4	2	2	4	2	1
2	Gull	Cragun's Lodge	20	4	19	11	8	4	15	8	6	12	4	2
3	Gull	Madden's Resort	22	2	21	8	11	3	16	9	4	7	5	2
4	Gull	Grand View Lodge	14	1	8	6	6	5	11	1	3	3	1	1
5	Gull	Gull & Love Lk Cpgd	12	0	7	9	3	2	8	4	0	7	3	0
6	Gull	Causeway on Gull	14	1	4	7	2	1	3	1	2	1	1	0
7	Gull	Gull Four Seasons	11	2	12	12	6	0	5	0	5	5	0	1
8	Gull	Quarterdeck Resort	16	3	8	12	5	4	4	2	0	0	0	3
9	Gull	Sandy Beach Resort	8	0	4	9	2	1	3	0	0	2	4	1
10	Gull	Gull Lake Resort	3	0	3	1	0	3	5	3	2	0	1	0
11	Gull	Boberg's Resort	5	3	11	5	2	0	3	2	1	0	1	0
12	Whitefish	Boyd Lodge	12	1	6	8	9	4	4	4	3	2	0	2
13	Whitefish	McGuire's Piney Ridge	5	0	3	4	9	1	1	4	0	3	0	0
14	Whitefish	Driftwood Family Resort	4	0	2	3	5	0	1	1	0	1	2	0
15	Whitefish	Kilworry Resort	4	0	6	3	3	0	0	6	2	4	3	0
16	Bertha	Sunset Knoll Resort	4	4	4	2	0	0	4	2	2	0	1	1
17	Pelican	Breezy Point Resort	31	2	28	21	8	6	15	12	8	14	8	0
18	Pelican	Hart's RV/Motorhome Res	18	2	15	11	7	2	14	6	4	8	5	2
		total Cat 1	208	26	165	135	90	37	116	67	44	73	41	16
19	Farm Islan	Farm Island Lake Resort	8	0	7	3	4	2	3	3	3	2	2	1
20	Farm Islan	Ruby's Lakeview Resort	3	1	2	0	2	1	1	2	2	0	0	0
21	Sylvan	Kavanaugh's	6	0	6	4	1	2	3	0	0	0	3	2
22	Ten Mile	Quietwoods Campground	5	1	5	2	0	0	2	0	0	2	0	0
23	Ten Mile	Happiness Resort	3	1	1	0	3	0	0	1	1	3	0	0
24	Ten Mile	Pewick's Kenfield Resort	2	2	3	2	0	0	0	2	1	1	1	1
25	Bay	Rutger's Bay Lake Lodge	18	5	19	7	6	4	9	7	6	7	5	2
26	Bay	Dalois Campgrounds	14	0	15	4	2	2	6	1	3	3	1	0
27	Hubert	Beachland Cottages	5	0	4	0	1	1	2	0	1	0	0	0
		total Cat 2	64	10	62	22	19	12	26	16	17	18	12	6
28	Hattie	Tuck-A-Way Resort	3	0	4	0	1	0	1	2	0	1	2	2
29	Hattie	Rest-In-The-Pines Resort	4	0	2	1	0	1	0	1	0	0	0	1
30	Mann	Wildwood Beach Resort	8	1	3	2	3	2	2	4	2	3	0	0
31	Emily	Lake Emily Resort	10	0	7	0	4	0	1	1	1	0	2	0
32	Emily	Little Pine RV Park	6	1	9	5	3	0	3	2	0	0	1	0



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33	Emily	Birch Beach Resort & RV	12	0	1	3	2	2	1	0	0	2	1	0
34	Little Boy	Little Boy Resort	4	0	2	1	4	0	3	2	2	4	5	1
35	Clark	Minnewawa Lodge	6	1	1	1	0	1	0	0	1	1	1	1
		total Cat 3	53	3	29	13	17	6	11	12	6	11	12	5
36	Loon	Rager's Acres	6	0	0	2	1	0	2	1	0	0	1	0
37	Loon	Loon Lake Tavern & Reso	6	1	0	0	1	0	2	0	0	1	1	0
38	Bass	Pine Crest Resort	3	0	1	1	2	0	0	1	1	0	0	1
		total Cat 4	15	1	1	3	4	0	4	2	1	1	2	1

## 1998 North Central MN Boating Study

EMPTY SLIPS FROM RESORTS			9-May	21-May	25-May	13-Jun	21-Jun	24-Jun	12-Jul	26-Jul	29-Jul	2-Aug	23-Aug	2-Sep
TOTAL FOR CATEGORY 1			150	36	125	115	52	69	117	93	86	108	99	42
TOTAL FOR CATEGORY 2-PA			45	27	39	34	22	27	38	38	56	61	37	21
TOTAL FOR CATEGORY 3-PA			16	10	11	10	13	18	11	12	13	14	14	5
TOTAL FOR CATEGORY 4-PA			3	1	1	2	2	2	3	3	2	3	4	1
ake Nam	Business	Count												
Upper Gull	Point Narrows Resort	14	9	1	7	9	3	3	4	6	7	11	4	1
Gull	Cragun's Lodge	28	19	3	16	8	5	6	13	4	4	6	4	2
Gull	Madden's Resort	17	9	2	6	13	4	3	13	4	5	4	7	2
Gull	Grand View Lodge	10	6	1	7	4	3	2	4	8	7	10	8	2
Gull	Gull & Love Lk Cpgd	2	0	0	1	2	0	0	1	0	1	1	2	0
Gull	Causeway on Gull	20	14	3	16	12	2	2	9	5	5	8	9	6
Gull	Gull Four Seasons	11	7	3	6	5	4	4	6	9	5	10	6	4
Gull	Quarterdeck Resort	11	2	3	7	2	3	4	7	7	9	4	6	3
Gull	Sandy Beach Resort	30	21	5	17	9	3	12	19	8	10	8	6	6
Gull	Gull Lake Resort	8	4	1	2	7	4	2	2	7	6	5	4	2
Gull	Boberg's Resort	0	0	0	0	0	0	0	0	0	0	0	0	0
Whitefish	Boyd Lodge	10	7	2	3	6	4	4	7	4	3	7	7	1
Whitefish	McGuire's Piney Ridge	6	6	1	2	5	2	1	5	4	3	2	5	0
Whitefish	Driftwood Family Resort	14	10	3	9	6	4	6	4	4	6	4	8	2
Whitefish	Kilworry Resort	20	13	4	3	4	6	8	10	6	4	8	11	3
Bertha	Sunset Knoll Resort	11	5	1	9	8	1	3	3	8	7	10	8	2
Pelican	Breezy Point Resort	30	18	3	14	15	4	9	10	9	4	10	4	6
Pelican	Hart's RV/Motorhome Resort	0	0	0	0	0	0	0	0	0	0	0	0	0
	total Cat 1	242	150	36	125	115	52	69	117	93	86	108	99	42
Farm Islan	Farm Island Lake Resort	6	3	2	2	2	1	1	2	2	5	1	3	1
Farm Islan	Ruby's Lakeview Resort	10	5	3	7	6	3	2	3	3	5	8	3	4
Sylvan	Kavanaugh's	25	13	5	5	9	5	9	10	10	8	15	5	4
Ten Mile	Quietwoods Campground	8	4	3	5	2	3	2	5	5	7	5	4	2
Ten Mile	Happiness Resort	9	5	2	2	4	3	4	6	6	6	6	4	3
Ten Mile	Pewick's Kenfield Resort	6	2	3	3	1	2	3	3	3	4	3	5	1
Bay	Rutger's Bay Lake Lodge	35	9	4	13	8	4	4	4	4	18	15	8	6
Bay	Dalois Campgrounds	3	1	2	0	0	0	1	0	0	2	2	0	0
Hubert	Beachland Cottages	10	3	3	2	2	1	1	5	5	1	6	5	0
	total Cat 2	112	45	27	39	34	22	27	38	38	56	61	37	21

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Hattie	Tuck-A-Way Resort	3	1	1	1	0	1	1	1	1	0	0	0	0
Hattie	Rest-In-The-Pines Resort	0	0	0	0	0	0	0	0	0	0	0	0	0
Mann	Wildwood Beach Resort	7	2	2	2	2	4	5	4	2	3	5	3	1
Emily	Lake Emily Resort	5	1	2	1	3	3	3	1	2	1	4	4	1
Emily	Little Pine RV Park	0	0	0	0	0	0	0	0	0	0	0	0	0
Emily	Birch Beach Resort & RV	5	3	1	1	1	2	3	2	2	2	1	1	2
Little Boy	Little Boy Resort	4	0	2	0	1	0	0	0	2	2	1	2	0
Clark	Minnewawa Lodge	15	9	2	6	3	3	6	3	3	5	3	4	1
	total Cat 3	39	16	10	11	10	13	18	11	12	13	14	14	5
Loon	Rager's Acres	5	2	1	1	1	2	2	2	1	1	1	2	1
Loon	Loon Lake Tavern & Resort	3	1	0	0	1	0	0	1	2	1	2	2	0
Bass	Pine Crest Resort	0	0	0	0	0	0	0	0	0	0	0	0	0
	total Cat 4	8	3	1	1	2	2	2	3	3	2	3	4	1

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seq	DOW	Name		total		run-				canoe				total	total wake
#	Number	of Lake	category	boats	cruiser	about	fishing	sailboat	pontoon	kayak	jetski	wake	o wak	boat type	no wake
1	480002	Mille Lacs	1	3480	104	1274	1956	5	112	12	17	875	2605	3480	3480
2	110305	Gull	1	255		97	134		24			65	190	255	255
3	110222	Margaret	1	12		4	6		2			1	11	12	12
4	180399	Nisswa	1	5			4		1			2	3	5	5
5	180398	Roy	1	2			2						2	2	2
6	110218	Upper Gull	1	29		12	13		4			8	21	29	29
7	180388	Love	1	15		2	8	1	2	1	1	4	11	15	15
8	110220	Ray	1	5		1	4						5	5	5
9	180310	Whitefish	1	85		28	43	1	10	2	1	19	66	85	85
10	180366	Arrowhead	1	8			7		1			2	6	8	8
11	180355	Bertha	1	5			5						5	5	5
12	180315	Big Trout	1	36		16	18		2			7	29	36	36
13	180356	Clamshell	1	7		1	5		1				7	7	7
14	180312	Cross	1	80		24	41	1	12	2		23	57	80	80
15	180271	Daggett	1	5			4		1				5	5	5
16	180269	Island	1	15		3	9		2	1		2	13	15	15
17	180266	Little Pine	1	15		5	8		2			4	11	15	15
18	180378	Lower Hay	1	6		2	4					1	5	6	6
19	180354	Pig	1	0										0	0
20	180311	Rush	1	30		14	12		4			11	19	30	30
21	180308	Pelican	1	138	2	47	64	2	15	4	4	45	93	138	138
TOTAL FOR CATEGORY 1				4233	106	1530	2347	10	195	22	23	1069	3164	4233	4233
22	110250	Ada	2-PA	18		5	9		4			6	12	18	18
23	180034	Bay	2-PA	47		18	21	1	6	1		18	29	47	47
24	101590	Farm Island	2-PA	74		34	29		8	3		28	46	74	74
25	180373	Round	2-PA	60		21	27	1	11			17	43	60	60
26	180251	Sandbar	2-PA	10			9		1				10	10	10
27	110304	Sylvan	2-PA	21		2	17		2			3	18	21	21
28	180020	Borden	2-PA	20		9	6		2	2	1	6	14	20	20
29	180038	Clearwater	2-PA	26		11	12		3			7	19	26	26
30	110120	Inguadona	2-PA	23		4	15	1	3			8	15	23	23
31	110162	Rice	2-PA	3			3						3	3	3
32	102040	Round	2-PA	7			7					2	5	7	7
33	110413	Ten Mile	2-PA	48		18	15	1	11	3		14	34	48	48
34	180375	Hubert	2-PA	7			6	1				2	5	7	7
35	110277	Big Deep	2-NPA	11		1	9		1				11	11	11

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TOTAL FOR CATEGORY 2-PA/NPA				375	0	123	185	5	52	9	1	111	264	375	375
seq	DOW	Name		total		run-				canoe				total	total wake
#	Number	of Lake	category	boats	cruiser	about	fishing	sailboat	pontoon	kayak	jetski	wake	o wak	boat type	no wake
36	180374	Clark	3-PA	3			3						3	3	3
37	180203	Emily	3-PA	28		12	12		4			4	24	28	28
38	180185	Mary	3-PA	11			9		2			3	8	11	11
39	110167	Little Boy	3-PA	39		14	18	1	5	1		9	30	39	39
40	101170	Nord	3-PA	15		2	13					3	12	15	15
41	101360	Waukenabo	3-PA	23		3	17		3			4	19	23	23
42	101470	Esquagamah	3-PA	26		14	9		3			12	14	26	26
43	110232	Hattie	3-NPA	22		11	8		2	1		8	14	22	22
44	110296	Moccasin	3-PA	2			2						2	2	2
45	180227	O'Brien	3-NPA	9			5	1	1	2		3	6	9	9
46	110282	Mann	3-NPA	1			1						1	1	1
TOTAL FOR CATEGORY 3-PA/NPA				179	0	56	97	2	20	4	0	46	133	179	179
47	180296	Eagle	4-PA	10		2	8					1	9	10	10
48	101320	Hansen	4-PA	5			3		2				5	5	5
49	110009	Little Thunder	4-PA	5		2	1		1	1		2	3	5	5
50	110226	Loon	4-PA	3			3						3	3	3
51	180379	White Sand	4-PA	7		2	5					1	6	7	7
52	101700	Hanging Kettle	4-PA	18		8	7		3			4	14	18	18
53	180256	Bass	4-PA	5			3			2			5	5	5
54	110292	Pine	4-PA	0										0	0
TOTAL FOR CATEGORY 4-PA				53	0	14	30	0	6	3	0	8	45	53	53

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#	Lake #	Lake Name	Grid	#pa	Map	Count	Comments
1	110305	Gull	F3	3	Lower Cass	44	
2	110305	Gull	F4	3	Lower Cass	30	
3	110305	Gull	A4	3	Crow Wing	37	
4	180310	Whitefish	A2	1	Crow Wing	15	
5	180315	Big Trout	B2	1	Crow Wing	12	
6	180356	Clamshell	B2	1	Crow Wing	0	
7	180312	Cross	B2	2	Crow Wing	6	
8	180312	Cross	C2	2	Crow Wing	30	
9	180378	Lower Hay	A2	1	Crow Wing	14	
10	180354	Pig	B2	1	Crow Wing	0	
11	180308	Pelican	B3	4	Crow Wing	25	
12	180308	Pelican	B3	4	Crow Wing	18	
13	180308	Pelican	B3	4	Crow Wing	0	
14	180308	Pelican	B3	4	Crow Wing	0	
					total Cat 1	231	
15	110250	Ada	C7	1	Upper Cass	6	
16	180034	Bay	E5	1	Crow Wing	15	
17	10159	Farm Island	A4	1	Aitkin	26	
18	180373	Round	A4	1	Crow Wing	22	
19	180251	Sandbar	C3	1	Crow Wing	5	
20	110304	Sylvan	F4	1	Lower Cass	10	
21	180020	Borden	E6	1	Crow Wing	15	
22	180038	Clearwater	D5	1	Crow Wing	24	
23	110120	Inguadona	D6	1	Upper Cass	3	
24	10204	Round	A4	1	Aitkin	4	
25	110413	Ten Mile	A6	1	Upper Cass	12	
26	180375	Hubert	A4	1	Crow Wing	3	
					total Cat 2	145	
27	180374	Clark	A4	1	Crow Wing	0	
28	180203	Emily	D2	1	Crow Wing	19	
29	110167	Little Boy	D6	1	Upper Cass	17	
30	10117	Nord	B4	1	Aitkin	10	
31	10136	Waukenabo	B2	1	Aitkin	15	
32	10147	Esquagamah	B2	1	Aitkin	12	
33	110296	Moccasin	C5	1	Upper Cass	3	
					total Cat 3	76	
34	180296	Eagle	C1	1	Crow Wing	7	
35	10132	Hansen	B3	1	Aitkin	4	
36	110009	Little Thunder	F6	1	Upper Cass	1	
37	110226	Loon	F3	1	Lower Cass	2	
38	180379	White Sand	A5	1	Crow Wing	3	
39	10170	Hanging Kettle	A4	1	Aitkin	11	
40	180256	Bass	C3	1	Crow Wing	3	
41	110292	Pine	C5	1	Upper Cass	0	
					total Cat 4	31	

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RESORTS  
CAMPGROUNDS

#	Lake #	Lake Name	Business	Count	Comments
1	110218	Upper Gull	Point Narrows Resort	5	
2	110305	Gull	Cragun's Lodge	20	
3	110305	Gull	Madden's Resort	22	
4	110305	Gull	Grand View Lodge	14	
5	110305	Gull	Gull & Love Lk Cpgd	12	
6	110305	Gull	Causeway on Gull	14	
7	110305	Gull	Gull Four Seasons	11	
8	110305	Gull	Quarterdeck Resort	16	
9	110305	Gull	Sandy Beach Resort	8	
10	110305	Gull	Gull Lake Resort	3	
11	110305	Gull	Boberg's Resort	5	
12	180310	Whitefish	Boyd Lodge	12	
13	180310	Whitefish	McGuire's Piney Ridge	5	
14	180310	Whitefish	Driftwood Family Resort	4	
15	180310	Whitefish	Kilworry Resort	4	
16	180355	Bertha	Sunset Knoll Resort	4	
17	180308	Pelican	Breezy Point Resort	31	
18	180308	Pelican	Hart's RV/Motorhome Resort	18	
			total Cat 1	208	
19	10159	Farm Island	Farm Island Lake Resort	8	
20	10159	Farm Island	Ruby's Lakeview Resort	3	
21	110304	Sylvan	Kavanaugh's	6	
22	110413	Ten Mile	Quietwoods Campground	5	
23	110413	Ten Mile	Happiness Resort	3	
24	110413	Ten Mile	Pewick's Kenfield Resort	2	
25	180034	Bay	Rutger's Bay Lake Lodge	18	
26	180034	Bay	Dalois Campgrounds	14	
27	180375	Hubert	Beachland Cottages	5	
			total Cat 2	64	
28	110232	Hattie	Tuck-A-Way Resort	3	
29	110232	Hattie	Rest-In-The-Pines Resort	4	
30	110282	Mann	Wildwood Beach Resort	8	
31	180203	Emily	Lake Emily Resort	10	
32	180203	Emily	Little Pine RV Park	6	
33	180203	Emily	Birch Beach Resort & RV	12	
34	110167	Little Boy	Little Boy Resort	4	
35	180374	Clark	Minnewawa Lodge	6	
			total Cat 3	53	
36	110226	Loon	Rager's Acres	6	
37	110226	Loon	Loon Lake Tavern & Resort	6	
38	180256	Bass	Pine Crest Resort	3	
			total Cat 4	15	

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# RENTAL BOATS RESORTS CAMPGROUNDS

Lake Name	Business	Count
Upper Gull	Point Narrows Resort	9
Gull	Cragun's Lodge	19
Gull	Madden's Resort	9
Gull	Grand View Lodge	6
Gull	Gull & Love Lk Cpgd	0
Gull	Causeway on Gull	14
Gull	Gull Four Seasons	7
Gull	Quarterdeck Resort	2
Gull	Sandy Beach Resort	21
Gull	Gull Lake Resort	4
Gull	Boberg's Resort	0
Whitefish	Boyd Lodge	7
Whitefish	McGuire's Piney Ridge	6
Whitefish	Driftwood Family Resort	10
Whitefish	Kilworry Resort	13
Bertha	Sunset Knoll Resort	5
Pelican	Breezy Point Resort	18
Pelican	Hart's RV/Motorhome Resort	0
	total Cat 1	150
Farm Island	Farm Island Lake Resort	3
Farm Island	Ruby's Lakeview Resort	5
Sylvan	Kavanaugh's	13
Ten Mile	Quietwoods Campground	4
Ten Mile	Happiness Resort	5
Ten Mile	Pewick's Kenfield Resort	2
Bay	Rutger's Bay Lake Lodge	9
Bay	Dalois Campgrounds	1
Hubert	Beachland Cottages	3
	total Cat 2	45
Hattie	Tuck-A-Way Resort	1
Hattie	Rest-In-The-Pines Resort	0
Mann	Wildwood Beach Resort	2
Emily	Lake Emily Resort	1
Emily	Little Pine RV Park	0
Emily	Birch Beach Resort & RV	3
Little Boy	Little Boy Resort	0
Clark	Minnewawa Lodge	9
	total Cat 3	16
Loon	Rager's Acres	2
Loon	Loon Lake Tavern & Resort	1
Bass	Pine Crest Resort	0
	total Cat 4	3



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seq	DOW	Name		total		run-				canoe				total	total wake
#	Number	of Lake	category	boats	cruiser	about	fishing	sailboat	pontoon	kayak	jetski	wake	no wake	boat type	no wake
1	480002	Mille Lacs	1	430	36	147	197	2	45		3	131	299	430	430
2	110305	Gull	1	48		16	28		4			15	33	48	48
3	110222	Margaret	1	5		1	4					2	3	5	5
4	180399	Nisswa	1	2			2						2	2	2
5	180398	Roy	1	0										0	0
6	110218	Upper Gull	1	3		1	2						3	3	3
7	180388	Love	1	4			2		1	1		1	3	4	4
8	110220	Ray	1	1			1						1	1	1
9	180310	Whitefish	1	14		2	9		3			3	11	14	14
10	180366	Arrowhead	1	0										0	0
11	180355	Bertha	1	1			1						1	1	1
12	180315	Big Trout	1	5			4		1			2	3	5	5
13	180356	Clamshell	1	1			1						1	1	1
14	180312	Cross	1	13		3	6	1	1	1	1	4	9	13	13
15	180271	Daggett	1	4			4					1	3	4	4
16	180269	Island	1	0										0	0
17	180266	Little Pine	1	0										0	0
18	180378	Lower Hay	1	0										0	0
19	180354	Pig	1	1			1						1	1	1
20	180311	Rush	1	6		3	3					1	5	6	6
21	180308	Pelican	1	27										0	0
TOTAL FOR CATEGORY 1				565	36	173	265	3	55	2	4	160	378	538	538
22	110250	Ada	2-PA	0										0	0
23	180034	Bay	2-PA	12		2	10						12	12	12
24	101590	Farm Island	2-PA	6			4		2			1	5	6	6
25	180373	Round	2-PA	11		3	4	1	2	1		4	7	11	11
26	180251	Sandbar	2-PA	1			1						1	1	1
27	110304	Sylvan	2-PA	5			4		1				5	5	5
28	180020	Borden	2-PA	2			2						2	2	2
29	180038	Clearwater	2-PA	1			1						1	1	1
30	110120	Inguadona	2-PA	5		2	3					3	2	5	5
31	110162	Rice	2-PA	1					1				1	1	1
32	102040	Round	2-PA	1						1		1		1	1
33	110413	Ten Mile	2-PA	10		3	5		2			2	8	10	10
34	180375	Hubert	2-PA	4			4						4	4	4
35	110277	Big Deep	2-NPA	1			1						1	1	1

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TOTAL FOR CATEGORY 2-PA/NPA				60	0	10	39	1	8	2	0	11	49	60	60
seq	DOW	Name		total		run-				canoe				total	total wake
#	Number	of Lake	category	boats	cruiser	about	fishing	sailboat	pontoon	kayak	jetski	wake	no wake	boat type	no wake
36	180374	Clark	3-PA	0										0	0
37	180203	Emily	3-PA	3		1	2						3	3	3
38	180185	Mary	3-PA	0										0	0
39	110167	Little Boy	3-PA	5			2	1	1	1		2	3	5	5
40	101170	Nord	3-PA	1			1						1	1	1
41	101360	Waukenabo	3-PA	1			1						1	1	1
42	101470	Esquagamah	3-PA	1			1						1	1	1
43	110232	Hattie	3-NPA	2		1	1						2	2	2
44	110296	Moccasin	3-PA	0										0	0
45	180227	O'Brien	3-NPA	0										0	0
46	110282	Mann	3-NPA	0										0	0
TOTAL FOR CATEGORY 3-PA/NPA				13	0	2	8	1	1	1	0	2	11	13	13
47	180296	Eagle	4-PA	2		1	1					1	1	2	2
48	101320	Hansen	4-PA	0										0	0
49	110009	Little Thunder	4-PA	0										0	0
50	110226	Loon	4-PA	1			1						1	1	1
51	180379	White Sand	4-PA	6		2	1		3			2	4	6	6
52	101700	Hanging Kettle	4-PA	0										0	0
53	180256	Bass	4-PA	2			2						2	2	2
54	110292	Pine	4-PA	0										0	0
TOTAL FOR CATEGORY 4-PA				11	0	3	5	0	3	0	0	3	8	11	11

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#	Lake #	Lake Name	Grid	#pa	Map	Count	Comments
1	110305	Gull	F3	3	Lower Cass	19	
2	110305	Gull	F4	3	Lower Cass	8	
3	110305	Gull	A4	3	Crow Wing	7	
4	180310	Whitefish	A2	1	Crow Wing	10	
5	180315	Big Trout	B2	1	Crow Wing	0	
6	180356	Clamshell	B2	1	Crow Wing	0	
7	180312	Cross	B2	2	Crow Wing	2	
8	180312	Cross	C2	2	Crow Wing	16	
9	180378	Lower Hay	A2	1	Crow Wing	1	
10	180354	Pig	B2	1	Crow Wing	0	
11	180308	Pelican	B3	4	Crow Wing	2	
12	180308	Pelican	B3	4	Crow Wing	4	
13	180308	Pelican	B3	4	Crow Wing	3	
14	180308	Pelican	B3	4	Crow Wing	1	
					total Cat 1	73	
15	110250	Ada	C7	1	Upper Cass	0	
16	180034	Bay	E5	1	Crow Wing	2	
17	10159	Farm Island	A4	1	Aitkin	1	
18	180373	Round	A4	1	Crow Wing	7	
19	180251	Sandbar	C3	1	Crow Wing	1	
20	110304	Sylvan	F4	1	Lower Cass	1	
21	180020	Borden	E6	1	Crow Wing	2	
22	180038	Clearwater	D5	1	Crow Wing	0	
23	110120	Inguadona	D6	1	Upper Cass	0	
24	10204	Round	A4	1	Aitkin	0	
25	110413	Ten Mile	A6	1	Upper Cass	1	
26	180375	Hubert	A4	1	Crow Wing	3	
					total Cat 2	18	
27	180374	Clark	A4	1	Crow Wing	0	
28	180203	Emily	D2	1	Crow Wing	2	
29	110167	Little Boy	D6	1	Upper Cass	3	
30	10117	Nord	B4	1	Aitkin	1	
31	10136	Waukenabo	B2	1	Aitkin	0	
32	10147	Esquagamah	B2	1	Aitkin	0	
33	110296	Moccasin	C5	1	Upper Cass	0	
					total Cat 3	6	
34	180296	Eagle	C1	1	Crow Wing	0	
35	10132	Hansen	B3	1	Aitkin	0	
36	110009	Little Thunder	F6	1	Upper Cass	0	
37	110226	Loon	F3	1	Lower Cass	1	
38	180379	White Sand	A5	1	Crow Wing	0	
39	10170	Hanging Kettle	A4	1	Aitkin	0	
40	180256	Bass	C3	1	Crow Wing	0	
41	110292	Pine	C5	1	Upper Cass	0	
					total Cat 4	1	

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RESORTS  
CAMPGROUNDS

#	Lake #	Lake Nam	Business	Count	Comments
1	110218	Upper Gull	Point Narrows Resort	1	
2	110305	Gull	Cragun's Lodge	4	
3	110305	Gull	Madden's Resort	2	
4	110305	Gull	Grand View Lodge	1	
5	110305	Gull	Gull & Love Lk Cpgd	0	
6	110305	Gull	Causeway on Gull	1	
7	110305	Gull	Gull Four Seasons	2	
8	110305	Gull	Quarterdeck Resort	3	
9	110305	Gull	Sandy Beach Resort	0	
10	110305	Gull	Gull Lake Resort	0	
11	110305	Gull	Boberg's Resort	3	
12	180310	Whitefish	Boyd Lodge	1	
13	180310	Whitefish	McGuire's Piney Ridge	0	
14	180310	Whitefish	Driftwood Family Resort	0	
15	180310	Whitefish	Kilworry Resort	0	
16	180355	Bertha	Sunset Knoll Resort	4	
17	180308	Pelican	Breezy Point Resort	2	
18	180308	Pelican	Hart's RV/Motorhome Res	2	
			total Cat 1	26	
19	10159	Farm Islan	Farm Island Lake Resort	0	
20	10159	Farm Islan	Ruby's Lakeview Resort	1	
21	110304	Sylvan	Kavanaugh's	0	
22	110413	Ten Mile	Quietwoods Campground	1	
23	110413	Ten Mile	Happiness Resort	1	
24	110413	Ten Mile	Pewick's Kenfield Resort	2	
25	180034	Bay	Rutger's Bay Lake Lodge	5	
26	180034	Bay	Dalois Campgrounds	0	
27	180375	Hubert	Beachland Cottages	0	
			total Cat 2	10	
28	110232	Hattie	Tuck-A-Way Resort	0	
29	110232	Hattie	Rest-In-The-Pines Resort	0	
30	110282	Mann	Wildwood Beach Resort	1	
31	180203	Emily	Lake Emily Resort	0	
32	180203	Emily	Little Pine RV Park	1	
33	180203	Emily	Birch Beach Resort & RV	0	
34	110167	Little Boy	Little Boy Resort	0	
35	180374	Clark	Minnewawa Lodge	1	
			total Cat 3	3	
36	110226	Loon	Rager's Acres	0	
37	110226	Loon	Loon Lake Tavern & Reso	1	
38	180256	Bass	Pine Crest Resort	0	
			total Cat 4	1	

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RENTAL BOATS  
RESORTS CAMPGROUNDS

Lake Name	Business	Count
Upper Gull	Point Narrows Resort	1
Gull	Cragun's Lodge	3
Gull	Madden's Resort	2
Gull	Grand View Lodge	1
Gull	Gull & Love Lk Cpgd	0
Gull	Causeway on Gull	3
Gull	Gull Four Seasons	3
Gull	Quarterdeck Resort	3
Gull	Sandy Beach Resort	5
Gull	Gull Lake Resort	1
Gull	Boberg's Resort	0
Whitefish	Boyd Lodge	2
Whitefish	McGuire's Piney Ridge	1
Whitefish	Driftwood Family Resort	3
Whitefish	Kilworry Resort	4
Bertha	Sunset Knoll Resort	1
Pelican	Breezy Point Resort	3
Pelican	Hart's RV/Motorhome Resort	0
	total Cat 1	36
Farm Island	Farm Island Lake Resort	2
Farm Island	Ruby's Lakeview Resort	3
Sylvan	Kavanaugh's	5
Ten Mile	Quietwoods Campground	3
Ten Mile	Happiness Resort	2
Ten Mile	Pewick's Kenfield Resort	3
Bay	Rutger's Bay Lake Lodge	4
Bay	Dalois Campgrounds	2
Hubert	Beachland Cottages	3
	total Cat 2	27
Hattie	Tuck-A-Way Resort	1
Hattie	Rest-In-The-Pines Resort	0
Mann	Wildwood Beach Resort	2
Emily	Lake Emily Resort	2
Emily	Little Pine RV Park	0
Emily	Birch Beach Resort & RV	1
Little Boy	Little Boy Resort	2
Clark	Minnewawa Lodge	2
	total Cat 3	10
Loon	Rager's Acres	1
Loon	Loon Lake Tavern & Resort	0
Bass	Pine Crest Resort	0
	total Cat 4	1

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seq #	DOW Number	Name of Lake	category	total boats	cruiser	run- about	fishing	sailboat	pontoon	canoe kayak	jetski	wake	no wake	total boat type	total wake no wake
1	480002	Mille Lacs	1	550	74	185	267	2	8		14	188	362	550	550
2	110305	Gull	1	245		112	102		15		16	87	158	245	245
3	110222	Margaret	1	13			5	1	3		4	4	9	13	13
4	180399	Nisswa	1	5			2		1		2	1	4	5	5
5	180398	Roy	1	21		7	8		5		1	3	18	21	21
6	110218	Upper Gull	1	23		9	14					12	11	23	23
7	180388	Love	1	5			5					3	2	5	5
8	110220	Ray	1	3			3						3	3	3
9	180310	Whitefish	1	52		14	21		15		2	21	31	52	52
10	180366	Arrowhead	1	4			4					1	3	4	4
11	180355	Bertha	1	4		2			1		1	2	2	4	4
12	180315	Big Trout	1	18		7	6		4	1		7	11	18	18
13	180356	Clamshell	1	5		2			3				5	5	5
14	180312	Cross	1	96		42	36		10	1	7	29	67	96	96
15	180271	Daggett	1	23		7	4		6		6	11	12	23	23
16	180269	Island	1	13		6	3		4			3	10	13	13
17	180266	Little Pine	1	13		4	4		3		2	5	8	13	13
18	180378	Lower Hay	1	3		2	1						3	3	3
19	180354	Pig	1	6			3		3			2	4	6	6
20	180311	Rush	1	34		14	11		6		3	11	23	34	34
21	180308	Pelican	1	69		29	21		7		12	16	53	69	69
TOTAL FOR CATEGORY 1				1205	74	442	520	3	94	2	70	406	799	1205	1205
22	110250	Ada	2-PA	10		6	4					2	8	10	10
23	180034	Bay	2-PA	59		24	21		11		3	21	38	59	59
24	101590	Farm Island	2-PA	50		28	16		4		2	24	26	50	50
25	180373	Round	2-PA	20		9	3		6		2	5	15	20	20
26	180251	Sandbar	2-PA	18		10	2		3		3	3	15	18	18
27	110304	Sylvan	2-PA	23		9	5		7		2	10	13	23	23
28	180020	Borden	2-PA	16		6	5		5			9	7	16	16
29	180038	Clearwater	2-PA	19		11	8					6	13	19	19
30	110120	Inguadona	2-PA	12		6	4		2			7	5	12	12
31	110162	Rice	2-PA	0										0	0
32	102040	Round	2-PA	16		7	3		4		2	2	14	16	16
33	110413	Ten Mile	2-PA	15		3	10		2			3	12	15	15
34	180375	Hubert	2-PA	22		12	7	1	2			12	10	22	22
35	110277	Big Deep	2-NPA	3		2	1						3	3	3

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TOTAL FOR CATEGORY 2-PA/NPA				283	0	133	89	1	46	0	14	104	179	283	283
seq	DOW	Name		total		run-				canoe				total	total wake
#	Number	of Lake	category	boats	cruiser	about	fishing	sailboat	pontoon	kayak	jetski	wake	no wake	boat type	no wake
36	180374	Clark	3-PA	7			2		5			2	5	7	7
37	180203	Emily	3-PA	5		3	2					1	4	5	5
38	180185	Mary	3-PA	2		1			1			2		2	2
39	110167	Little Boy	3-PA	17		9	5		3			4	13	17	17
40	101170	Nord	3-PA	12		6	4		2			3	9	12	12
41	101360	Waukenabo	3-PA	8		1	7					1	7	8	8
42	101470	Esquagamah	3-PA	10		5	5					2	8	10	10
43	110232	Hattie	3-NPA	11		6	2		3			6	5	11	11
44	110296	Moccasin	3-PA	3			3						3	3	3
45	180227	O'Brien	3-NPA	6			2		4			1	5	6	6
46	110282	Mann	3-NPA	2			2						2	2	2
TOTAL FOR CATEGORY 3-PA/NPA				83	0	31	34	0	18	0	0	22	61	83	83
47	180296	Eagle	4-PA	3		1	1				1		3	3	3
48	101320	Hansen	4-PA	3		1			2			1	2	3	3
49	110009	Little Thunder	4-PA	1			1						1	1	1
50	110226	Loon	4-PA	1							1	1		1	1
51	180379	White Sand	4-PA	12		3	2		4		3	4	8	12	12
52	101700	Hanging Kettle	4-PA	5			3		1		1		5	5	5
53	180256	Bass	4-PA	5		3	1		1			1	4	5	5
54	110292	Pine	4-PA	2			2						2	2	2
TOTAL FOR CATEGORY 4-PA				32	0	8	10	0	8	0	6	7	25	32	32

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PUBLIC  
ACCESSES

#	Lake #	Lake Name	Grid	#pa	Map	Count	Comments
1	110305	Gull	F3	3	Lower Cass	15	
2	110305	Gull	F4	3	Lower Cass	35	
3	110305	Gull	A4	3	Crow Wing	35	
4	180310	Whitefish	A2	1	Crow Wing	6	
5	180315	Big Trout	B2	1	Crow Wing	6	
6	180356	Clamshell	B2	1	Crow Wing	2	
7	180312	Cross	B2	2	Crow Wing	6	
8	180312	Cross	C2	2	Crow Wing	27	
9	180378	Lower Hay	A2	1	Crow Wing	14	
10	180354	Pig	B2	1	Crow Wing	0	
11	180308	Pelican	B3	4	Crow Wing	1	
12	180308	Pelican	B3	4	Crow Wing	14	
13	180308	Pelican	B3	4	Crow Wing	30	
14	180308	Pelican	B3	4	Crow Wing	4	
					total Cat 1	195	
15	110250	Ada	C7	1	Upper Cass	1	
16	180034	Bay	E5	1	Crow Wing	12	
17	10159	Farm Island	A4	1	Aitkin	10	
18	180373	Round	A4	1	Crow Wing	17	
19	180251	Sandbar	C3	1	Crow Wing	3	
20	110304	Sylvan	F4	1	Lower Cass	13	
21	180020	Borden	E6	1	Crow Wing	8	
22	180038	Clearwater	D5	1	Crow Wing	3	
23	110120	Inguadona	D6	1	Upper Cass	3	
24	10204	Round	A4	1	Aitkin	5	
25	110413	Ten Mile	A6	1	Upper Cass	2	
26	180375	Hubert	A4	1	Crow Wing	8	
					total Cat 2	85	
27	180374	Clark	A4	1	Crow Wing	2	
28	180203	Emily	D2	1	Crow Wing	2	
29	110167	Little Boy	D6	1	Upper Cass	6	
30	10117	Nord	B4	1	Aitkin	2	
31	10136	Waukenabo	B2	1	Aitkin	4	
32	10147	Esquagamah	B2	1	Aitkin	5	
33	110296	Moccasin	C5	1	Upper Cass	4	
					total Cat 3	25	
34	180296	Eagle	C1	1	Crow Wing	0	
35	10132	Hansen	B3	1	Aitkin	1	
36	110009	Little Thunder	F6	1	Upper Cass	1	
37	110226	Loon	F3	1	Lower Cass	0	
38	180379	White Sand	A5	1	Crow Wing	2	
39	10170	Hanging Kettle	A4	1	Aitkin	3	
40	180256	Bass	C3	1	Crow Wing	2	
41	110292	Pine	C5	1	Upper Cass	2	
					total Cat 4	11	



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RESORTS  
CAMPGROUNDS

#	Lake #	Lake Name	Business	Count	Comments
1	110218	Upper Gull	Point Narrows Resort	4	
2	110305	Gull	Cragun's Lodge	19	
3	110305	Gull	Madden's Resort	21	
4	110305	Gull	Grand View Lodge	8	
5	110305	Gull	Gull & Love Lk Cpgd	7	
6	110305	Gull	Causeway on Gull	4	
7	110305	Gull	Gull Four Seasons	12	
8	110305	Gull	Quarterdeck Resort	8	
9	110305	Gull	Sandy Beach Resort	4	
10	110305	Gull	Gull Lake Resort	3	
11	110305	Gull	Boberg's Resort	11	
12	180310	Whitefish	Boyd Lodge	6	
13	180310	Whitefish	McGuire's Piney Ridge	3	
14	180310	Whitefish	Driftwood Family Resort	2	
15	180310	Whitefish	Kilworry Resort	6	
16	180355	Bertha	Sunset Knoll Resort	4	
17	180308	Pelican	Breezy Point Resort	28	
18	180308	Pelican	Hart's RV/Motorhome Resort	15	
			total Cat 1	165	
19	10159	Farm Island	Farm Island Lake Resort	7	
20	10159	Farm Island	Ruby's Lakeview Resort	2	
21	110304	Sylvan	Kavanaugh's	6	
22	110413	Ten Mile	Quietwoods Campground	5	
23	110413	Ten Mile	Happiness Resort	1	
24	110413	Ten Mile	Pewick's Kenfield Resort	3	
25	180034	Bay	Rutger's Bay Lake Lodge	19	
26	180034	Bay	Dalois Campgrounds	15	
27	180375	Hubert	Beachland Cottages	4	
			total Cat 2	62	
28	110232	Hattie	Tuck-A-Way Resort	4	
29	110232	Hattie	Rest-In-The-Pines Resort	2	
30	110282	Mann	Wildwood Beach Resort	3	
31	180203	Emily	Lake Emily Resort	7	
32	180203	Emily	Little Pine RV Park	9	
33	180203	Emily	Birch Beach Resort & RV	1	
34	110167	Little Boy	Little Boy Resort	2	
35	180374	Clark	Minnewawa Lodge	1	
			total Cat 3	29	
36	110226	Loon	Rager's Acres	0	
37	110226	Loon	Loon Lake Tavern & Resort	0	
38	180256	Bass	Pine Crest Resort	1	
			total Cat 4	1	

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RENTAL BOATS  
RESORTS CAMPGROUNDS

Lake Name	Business	Count
Upper Gull	Point Narrows Resort	7
Gull	Cragun's Lodge	16
Gull	Madden's Resort	6
Gull	Grand View Lodge	7
Gull	Gull & Love Lk Cpgd	1
Gull	Causeway on Gull	16
Gull	Gull Four Seasons	6
Gull	Quarterdeck Resort	7
Gull	Sandy Beach Resort	17
Gull	Gull Lake Resort	2
Gull	Boberg's Resort	0
Whitefish	Boyd Lodge	3
Whitefish	McGuire's Piney Ridge	2
Whitefish	Driftwood Family Resort	9
Whitefish	Kilworry Resort	3
Bertha	Sunset Knoll Resort	9
Pelican	Breezy Point Resort	14
Pelican	Hart's RV/Motorhome Resort	0
	total Cat 1	125
Farm Island	Farm Island Lake Resort	2
Farm Island	Ruby's Lakeview Resort	7
Sylvan	Kavanaugh's	5
Ten Mile	Quietwoods Campground	5
Ten Mile	Happiness Resort	2
Ten Mile	Pewick's Kenfield Resort	3
Bay	Rutger's Bay Lake Lodge	13
Bay	Dalois Campgrounds	0
Hubert	Beachland Cottages	2
	total Cat 2	39
Hattie	Tuck-A-Way Resort	1
Hattie	Rest-In-The-Pines Resort	0
Mann	Wildwood Beach Resort	2
Emily	Lake Emily Resort	1
Emily	Little Pine RV Park	0
Emily	Birch Beach Resort & RV	1
Little Boy	Little Boy Resort	0
Clark	Minnewawa Lodge	6
	total Cat 3	11
Loon	Rager's Acres	1
Loon	Loon Lake Tavern & Resort	0
Bass	Pine Crest Resort	0
	total Cat 4	1

Date: June 13, 1998

seq	DOW	Name		total		run-				canoe				total	total wake
#	Number	of Lake	category	boats	cruiser	about	fishing	sailboat	pontoon	kayak	jetski	wake	no wake	boat type	no wake
1	480002	Mille Lacs	1	449	62	192	180	6	4		5	151	298	449	449
2	110305	Gull	1	86		36	29	4	12		5	31	55	86	86
3	110222	Margaret	1	11	1	4	4		2			3	8	11	11
4	180399	Nisswa	1	6		1	5					1	5	6	6
5	180398	Roy	1	5			2		3			3	2	5	5
6	110218	Upper Gull	1	24		12	8		4			7	17	24	24
7	180388	Love	1	2		1	1						2	2	2
8	110220	Ray	1	8		3	2		1		2	1	7	8	8
9	180310	Whitefish	1	82	2	32	27	3	11	1	6	31	51	82	82
10	180366	Arrowhead	1	3		2	1					2	1	3	3
11	180355	Bertha	1	7		3	2		1		1	3	4	7	7
12	180315	Big Trout	1	24		10	8	1	1		4	4	20	24	24
13	180356	Clamshell	1	5		4	1					4	1	5	5
14	180312	Cross	1	51		21	13		10		7	13	38	51	51
15	180271	Daggett	1	13		2	6		5			4	9	13	13
16	180269	Island	1	7		5	1		1			1	6	7	7
17	180266	Little Pine	1	9		2	4		2		1	3	6	9	9
18	180378	Lower Hay	1	8			6	1	1			2	6	8	8
19	180354	Pig	1	4		1	7					5	3	8	8
20	180311	Rush	1	44		18	12		8		6	21	23	44	44
21	180308	Pelican	1	63		28	23	1	4	2	5	22	41	63	63
TOTAL FOR CATEGORY 1				911	65	377	342	16	70	3	42	312	603	915	915
22	110250	Ada	2-PA	7			4	1	2			1	6	7	7
23	180034	Bay	2-PA	43		18	13		11	1		15	28	43	43
24	101590	Farm Island	2-PA	37		15	12	1	8		1	12	25	37	37
25	180373	Round	2-PA	21		8	3	2	4	1	3	4	17	21	21
26	180251	Sandbar	2-PA	11		1	6		2	2		6	5	11	11
27	110304	Sylvan	2-PA	14		5	5		2	2		3	11	14	14
28	180020	Borden	2-PA	18		8	5		4	1		7	11	18	18
29	180038	Clearwater	2-PA	7		4	2		1			4	3	7	7
30	110120	Inguadona	2-PA	11		3	3		3	2		7	4	11	11
31	110162	Rice	2-PA	2			1		1				2	2	2
32	102040	Round	2-PA	6			5				1		6	6	6
33	110413	Ten Mile	2-PA	19		9	8	1	1			2	17	19	19
34	180375	Hubert	2-PA	21		8	8	2	2		1	5	16	21	21
35	110277	Big Deep	2-NPA	2			2						2	2	2

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TOTAL FOR CATEGORY 2-PA/NPA				219	0	79	77	7	41	9	6	66	153	219	219
seq	DOW	Name		total		run-				canoe				total	total wake
#	Number	of Lake	category	boats	cruiser	about	fishing	sailboat	pontoon	kayak	jetski	wake	no wake	boat type	no wake
36	180374	Clark	3-PA	3			1		2				3	3	3
37	180203	Emily	3-PA	8		2	4		2			2	6	8	8
38	180185	Mary	3-PA	8		2	5		1			4	4	8	8
39	110167	Little Boy	3-PA	15		8	5		1	1		3	12	15	15
40	101170	Nord	3-PA	4			2		2				4	4	4
41	101360	Waukenabo	3-PA	5			4		1				5	5	5
42	101470	Esquagamah	3-PA	15		9	5		1			2	13	15	15
43	110232	Hattie	3-NPA	4			4						4	4	4
44	110296	Moccasin	3-PA	8			8						8	8	8
45	180227	O'Brien	3-NPA	3		1					2		3	3	3
46	110282	Mann	3-NPA	5		1	3	1				4	1	5	5
TOTAL FOR CATEGORY 3-PA/NPA				78	0	23	41	1	10	1	2	15	63	78	78
47	180296	Eagle	4-PA	9		4	4		1			2	7	9	9
48	101320	Hansen	4-PA	1			1						1	1	1
49	110009	Little Thunder	4-PA	1			1					1		1	1
50	110226	Loon	4-PA	5			2		1	2			5	5	5
51	180379	White Sand	4-PA	5			3		1		1		5	5	5
52	101700	Hanging Kettle	4-PA	9		6	3					1	8	9	9
53	180256	Bass	4-PA	6			4		1		1		6	6	6
54	110292	Pine	4-PA	2			2					1	1	2	2
TOTAL FOR CATEGORY 4-PA				38	0	10	20	0	4	2	2	5	33	38	38

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PUBLIC  
ACCESSES

#	Lake #	Lake Name	Grid	#pa	Map	Count	Comments
1	110305	Gull	F3	3	Lower Cass	19	
2	110305	Gull	F4	3	Lower Cass	16	
3	110305	Gull	A4	3	Crow Wing	26	
4	180310	Whitefish	A2	1	Crow Wing	9	
5	180315	Big Trout	B2	1	Crow Wing	7	
6	180356	Clamshell	B2	1	Crow Wing	1	
7	180312	Cross	B2	2	Crow Wing	6	
8	180312	Cross	C2	2	Crow Wing	19	
9	180378	Lower Hay	A2	1	Crow Wing	5	
10	180354	Pig	B2	1	Crow Wing	1	
11	180308	Pelican	B3	4	Crow Wing	8	
12	180308	Pelican	B3	4	Crow Wing	21	
13	180308	Pelican	B3	4	Crow Wing	0	
14	180308	Pelican	B3	4	Crow Wing	6	
					total Cat 1	144	
15	110250	Ada	C7	1	Upper Cass	0	
16	180034	Bay	E5	1	Crow Wing	7	
17	10159	Farm Island	A4	1	Aitkin	6	
18	180373	Round	A4	1	Crow Wing	4	
19	180251	Sandbar	C3	1	Crow Wing	4	
20	110304	Sylvan	F4	1	Lower Cass	4	
21	180020	Borden	E6	1	Crow Wing	5	
22	180038	Clearwater	D5	1	Crow Wing	2	
23	110120	Inguadona	D6	1	Upper Cass	1	
24	10204	Round	A4	1	Aitkin	2	
25	110413	Ten Mile	A6	1	Upper Cass	1	
26	180375	Hubert	A4	1	Crow Wing	8	
					total Cat 2	44	
27	180374	Clark	A4	1	Crow Wing	0	
28	180203	Emily	D2	1	Crow Wing	3	
29	110167	Little Boy	D6	1	Upper Cass	4	
30	10117	Nord	B4	1	Aitkin	0	
31	10136	Waukenabo	B2	1	Aitkin	1	
32	10147	Esquagamah	B2	1	Aitkin	2	
33	110296	Moccasin	C5	1	Upper Cass	4	
					total Cat 3	14	
34	180296	Eagle	C1	1	Crow Wing	1	
35	10132	Hansen	B3	1	Aitkin	2	
36	110009	Little Thunder	F6	1	Upper Cass	1	
37	110226	Loon	F3	1	Lower Cass	2	
38	180379	White Sand	A5	1	Crow Wing	1	
39	10170	Hanging Kettle	A4	1	Aitkin	0	
40	180256	Bass	C3	1	Crow Wing	4	
41	110292	Pine	C5	1	Upper Cass	0	
					total Cat 4	11	

Date: June 13, 1998

RESORTS  
CAMPGROUNDS

#	Lake #	Lake Name	Business	Count	Comments
1	110218	Upper Gull	Point Narrows Resort	3	
2	110305	Gull	Cragun's Lodge	11	
3	110305	Gull	Madden's Resort	8	
4	110305	Gull	Grand View Lodge	6	
5	110305	Gull	Gull & Love Lk Cpgd	9	
6	110305	Gull	Causeway on Gull	7	
7	110305	Gull	Gull Four Seasons	12	
8	110305	Gull	Quarterdeck Resort	12	
9	110305	Gull	Sandy Beach Resort	9	
10	110305	Gull	Gull Lake Resort	1	
11	110305	Gull	Boberg's Resort	5	
12	180310	Whitefish	Boyd Lodge	8	
13	180310	Whitefish	McGuire's Piney Ridge	4	
14	180310	Whitefish	Driftwood Family Resort	3	
15	180310	Whitefish	Kilworry Resort	3	
16	180355	Bertha	Sunset Knoll Resort	2	
17	180308	Pelican	Breezy Point Resort	21	
18	180308	Pelican	Hart's RV/Motorhome Resort	11	
			total Cat 1	135	
19	10159	Farm Island	Farm Island Lake Resort	3	
20	10159	Farm Island	Ruby's Lakeview Resort	0	
21	110304	Sylvan	Kavanaugh's	4	
22	110413	Ten Mile	Quietwoods Campground	2	
23	110413	Ten Mile	Happiness Resort	0	
24	110413	Ten Mile	Pewick's Kenfield Resort	2	
25	180034	Bay	Rutger's Bay Lake Lodge	7	
26	180034	Bay	Dalois Campgrounds	4	
27	180375	Hubert	Beachland Cottages	0	
			total Cat 2	22	
28	110232	Hattie	Tuck-A-Way Resort	0	
29	110232	Hattie	Rest-In-The-Pines Resort	1	
30	110282	Mann	Wildwood Beach Resort	2	
31	180203	Emily	Lake Emily Resort	0	
32	180203	Emily	Little Pine RV Park	5	
33	180203	Emily	Birch Beach Resort & RV	3	
34	110167	Little Boy	Little Boy Resort	1	
35	180374	Clark	Minnewawa Lodge	1	
			total Cat 3	13	
36	110226	Loon	Rager's Acres	2	
37	110226	Loon	Loon Lake Tavern & Resort	0	
38	180256	Bass	Pine Crest Resort	1	
			total Cat 4	3	

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# RENTAL BOATS RESORTS CAMPGROUNDS

Lake Name	Business	Count
Upper Gull	Point Narrows Resort	9
Gull	Cragun's Lodge	8
Gull	Madden's Resort	13
Gull	Grand View Lodge	4
Gull	Gull & Love Lk Cpgd	2
Gull	Causeway on Gull	12
Gull	Gull Four Seasons	5
Gull	Quarterdeck Resort	2
Gull	Sandy Beach Resort	9
Gull	Gull Lake Resort	7
Gull	Boberg's Resort	0
Whitefish	Boyd Lodge	6
Whitefish	McGuire's Piney Ridge	5
Whitefish	Driftwood Family Resort	6
Whitefish	Kilworry Resort	4
Bertha	Sunset Knoll Resort	8
Pelican	Breezy Point Resort	15
Pelican	Hart's RV/Motorhome Resort	0
	total Cat 1	115
Farm Island	Farm Island Lake Resort	2
Farm Island	Ruby's Lakeview Resort	6
Sylvan	Kavanaugh's	9
Ten Mile	Quietwoods Campground	2
Ten Mile	Happiness Resort	4
Ten Mile	Pewick's Kenfield Resort	1
Bay	Rutger's Bay Lake Lodge	8
Bay	Dalois Campgrounds	0
Hubert	Beachland Cottages	2
	total Cat 2	34
Hattie	Tuck-A-Way Resort	0
Hattie	Rest-In-The-Pines Resort	0
Mann	Wildwood Beach Resort	2
Emily	Lake Emily Resort	3
Emily	Little Pine RV Park	0
Emily	Birch Beach Resort & RV	1
Little Boy	Little Boy Resort	1
Clark	Minnewawa Lodge	3
	total Cat 3	10
Loon	Rager's Acres	1
Loon	Loon Lake Tavern & Resort	1
Bass	Pine Crest Resort	0
	total Cat 4	2

Date: June 21, 1998

seq #	DOW Number	Name of Lake	category	total boats	cruiser	run- about	fishing	sailboat	pontoon	canoe kayak	jetski	wake	no wake	total boat type	total wake no wake
1	480002	Mille Lacs	1	203	14	94	83	1	9		2	70	133	203	203
2	110305	Gull	1	68		31	29	3	5			19	49	68	68
3	110222	Margaret	1	4			4						4	4	4
4	180399	Nisswa	1	5		1	4					3	2	5	5
5	180398	Roy	1	5		1	3		1			1	4	5	5
6	110218	Upper Gull	1	11		6	4		1			2	9	11	11
7	180388	Love	1	5		1	3		1			1	4	5	5
8	110220	Ray	1	6		1	3		2			2	4	6	6
9	180310	Whitefish	1	23		11	6	1	3		2	2	21	23	23
10	180366	Arrowhead	1	2			1		1			2		2	2
11	180355	Bertha	1	1				1					1	1	1
12	180315	Big Trout	1	9		4	2	1		2		5	4	9	9
13	180356	Clamshell	1	11		6	3	1	1			3	8	11	11
14	180312	Cross	1	20		8	7	1	4			4	16	20	20
15	180271	Daggett	1	3		1	1		1			2	1	3	3
16	180269	Island	1	2			2					1	1	2	2
17	180266	Little Pine	1	2		1			1				2	2	2
18	180378	Lower Hay	1	0										0	0
19	180354	Pig	1	0										0	0
20	180311	Rush	1	11		6	4		1			3	8	11	11
21	180308	Pelican	1	36		15	14		5	1	1	11	25	36	36
TOTAL FOR CATEGORY 1				427	14	187	173	9	36	3	5	131	296	427	427
22	110250	Ada	2-PA	4			4						4	4	4
23	180034	Bay	2-PA	13		5	3		5			2	11	13	13
24	101590	Farm Island	2-PA	13		5	6	1		1		7	6	13	13
25	180373	Round	2-PA	8			7				1	2	6	8	8
26	180251	Sandbar	2-PA	10		3	3		4			3	7	10	10
27	110304	Sylvan	2-PA	6			5		1			1	5	6	6
28	180020	Borden	2-PA	7			5		2				7	7	7
29	180038	Clearwater	2-PA	8			6		2			3	5	8	8
30	110120	Inguadona	2-PA	11		3	3	3	1	1		3	8	11	11
31	110162	Rice	2-PA	4						4		3	1	4	4
32	102040	Round	2-PA	13		2	8		3			5	8	13	13
33	110413	Ten Mile	2-PA	24		2	14			8		5	19	24	24
34	180375	Hubert	2-PA	11			11					4	7	11	11
35	110277	Big Deep	2-NPA	2					2			1	1	2	2



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TOTAL FOR CATEGORY 2-PA/NPA				134	0	20	75	4	20	14	1	39	95	134	134
seq	DOW	Name		total		run-				canoe				total	total wake
#	Number	of Lake	category	boats	cruiser	about	fishing	sailboat	pontoon	kayak	jetski	wake	no wake	boat type	no wake
36	180374	Clark	3-PA	2			1		1				2	2	2
37	180203	Emily	3-PA	7		2	4		1			3	4	7	7
38	180185	Mary	3-PA	0										0	0
39	110167	Little Boy	3-PA	19			19					4	15	19	19
40	101170	Nord	3-PA	2			1		1			1	1	2	2
41	101360	Waukenabo	3-PA	2			2					2		2	2
42	101470	Esquagamah	3-PA	5			3		2			3	2	5	5
43	110232	Hattie	3-NPA	3			3						3	3	3
44	110296	Moccasin	3-PA	1			1						1	1	1
45	180227	O'Brien	3-NPA	3		1			2				3	3	3
46	110282	Mann	3-NPA	4			4						4	4	4
TOTAL FOR CATEGORY 3-PA/NPA				48	0	3	38	0	7	0	0	13	35	48	48
47	180296	Eagle	4-PA	4			4						4	4	4
48	101320	Hansen	4-PA	1			1					1		1	1
49	110009	Little Thunder	4-PA	0										0	0
50	110226	Loon	4-PA	2			2						2	2	2
51	180379	White Sand	4-PA	0										0	0
52	101700	Hanging Kettle	4-PA	2			1				1	1	1	2	2
53	180256	Bass	4-PA	4		1	2				1	1	3	4	4
54	110292	Pine	4-PA	1			1					1		1	1
TOTAL FOR CATEGORY 4-PA				14	0	1	11	0	0	0	2	4	10	14	14

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#	Lake #	Lake Name	Grid	#pa	Map	Count	Comments
1	110305	Gull	F3	3	Lower Cass	21	
2	110305	Gull	F4	3	Lower Cass	37	
3	110305	Gull	A4	3	Crow Wing	8	
4	180310	Whitefish	A2	1	Crow Wing	2	
5	180315	Big Trout	B2	1	Crow Wing	0	
6	180356	Clamshell	B2	1	Crow Wing	2	
7	180312	Cross	B2	2	Crow Wing	2	
8	180312	Cross	C2	2	Crow Wing	21	
9	180378	Lower Hay	A2	1	Crow Wing	1	
10	180354	Pig	B2	1	Crow Wing	0	
11	180308	Pelican	B3	4	Crow Wing	4	
12	180308	Pelican	B3	4	Crow Wing	22	
13	180308	Pelican	B3	4	Crow Wing	0	
14	180308	Pelican	B3	4	Crow Wing	2	
					total Cat 1	122	
15	110250	Ada	C7	1	Upper Cass	1	
16	180034	Bay	E5	1	Crow Wing	3	
17	10159	Farm Island	A4	1	Aitkin	11	
18	180373	Round	A4	1	Crow Wing	3	
19	180251	Sandbar	C3	1	Crow Wing	2	
20	110304	Sylvan	F4	1	Lower Cass	2	
21	180020	Borden	E6	1	Crow Wing	5	
22	180038	Clearwater	D5	1	Crow Wing	4	
23	110120	Inguadona	D6	1	Upper Cass	4	
24	10204	Round	A4	1	Aitkin	5	
25	110413	Ten Mile	A6	1	Upper Cass	1	
26	180375	Hubert	A4	1	Crow Wing	0	
					total Cat 2	41	
27	180374	Clark	A4	1	Crow Wing	0	
28	180203	Emily	D2	1	Crow Wing	4	
29	110167	Little Boy	D6	1	Upper Cass	6	
30	10117	Nord	B4	1	Aitkin	1	
31	10136	Waukenabo	B2	1	Aitkin	1	
32	10147	Esquagamah	B2	1	Aitkin	2	
33	110296	Moccasin	C5	1	Upper Cass	0	
					total Cat 3	14	
34	180296	Eagle	C1	1	Crow Wing	1	
35	10132	Hansen	B3	1	Aitkin	1	
36	110009	Little Thunder	F6	1	Upper Cass	0	
37	110226	Loon	F3	1	Lower Cass	0	
38	180379	White Sand	A5	1	Crow Wing	0	
39	10170	Hanging Kettle	A4	1	Aitkin	3	
40	180256	Bass	C3	1	Crow Wing	3	
41	110292	Pine	C5	1	Upper Cass	0	
					total Cat 4	8	

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RESORTS  
CAMPGROUNDS

#	Lake #	Lake Name	Business	Count	Comments
1	110218	Upper Gull	Point Narrows Resort	4	
2	110305	Gull	Cragun's Lodge	8	
3	110305	Gull	Madden's Resort	11	
4	110305	Gull	Grand View Lodge	6	
5	110305	Gull	Gull & Love Lk Cpgd	3	
6	110305	Gull	Causeway on Gull	2	
7	110305	Gull	Gull Four Seasons	6	
8	110305	Gull	Quarterdeck Resort	5	
9	110305	Gull	Sandy Beach Resort	2	
10	110305	Gull	Gull Lake Resort	0	
11	110305	Gull	Boberg's Resort	2	
12	180310	Whitefish	Boyd Lodge	9	
13	180310	Whitefish	McGuire's Piney Ridge	9	
14	180310	Whitefish	Driftwood Family Resort	5	
15	180310	Whitefish	Kilworry Resort	3	
16	180355	Bertha	Sunset Knoll Resort	0	
17	180308	Pelican	Breezy Point Resort	8	
18	180308	Pelican	Hart's RV/Motorhome Resort	7	
			total Cat 1	90	
19	10159	Farm Island	Farm Island Lake Resort	4	
20	10159	Farm Island	Ruby's Lakeview Resort	2	
21	110304	Sylvan	Kavanaugh's	1	
22	110413	Ten Mile	Quietwoods Campground	0	
23	110413	Ten Mile	Happiness Resort	3	
24	110413	Ten Mile	Pewick's Kenfield Resort	0	
25	180034	Bay	Rutger's Bay Lake Lodge	6	
26	180034	Bay	Dalois Campgrounds	2	
27	180375	Hubert	Beachland Cottages	1	
			total Cat 2	19	
28	110232	Hattie	Tuck-A-Way Resort	1	
29	110232	Hattie	Rest-In-The-Pines Resort	0	
30	110282	Mann	Wildwood Beach Resort	3	
31	180203	Emily	Lake Emily Resort	4	
32	180203	Emily	Little Pine RV Park	3	
33	180203	Emily	Birch Beach Resort & RV	2	
34	110167	Little Boy	Little Boy Resort	4	
35	180374	Clark	Minnewawa Lodge	0	
			total Cat 3	17	
36	110226	Loon	Rager's Acres	1	
37	110226	Loon	Loon Lake Tavern & Resort	1	
38	180256	Bass	Pine Crest Resort	2	
			total Cat 4	4	

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# RENTAL BOATS RESORTS CAMPGROUNDS

Lake Name	Business	Count
Upper Gull	Point Narrows Resort	3
Gull	Cragun's Lodge	5
Gull	Madden's Resort	4
Gull	Grand View Lodge	3
Gull	Gull & Love Lk Cpgd	0
Gull	Causeway on Gull	2
Gull	Gull Four Seasons	4
Gull	Quarterdeck Resort	3
Gull	Sandy Beach Resort	3
Gull	Gull Lake Resort	4
Gull	Boberg's Resort	0
Whitefish	Boyd Lodge	4
Whitefish	McGuire's Piney Ridge	2
Whitefish	Driftwood Family Resort	4
Whitefish	Kilworry Resort	6
Bertha	Sunset Knoll Resort	1
Pelican	Breezy Point Resort	4
Pelican	Hart's RV/Motorhome Resort	0
	total Cat 1	52
Farm Island	Farm Island Lake Resort	1
Farm Island	Ruby's Lakeview Resort	3
Sylvan	Kavanaugh's	5
Ten Mile	Quietwoods Campground	3
Ten Mile	Happiness Resort	3
Ten Mile	Pewick's Kenfield Resort	2
Bay	Rutger's Bay Lake Lodge	4
Bay	Dalois Campgrounds	0
Hubert	Beachland Cottages	1
	total Cat 2	22
Hattie	Tuck-A-Way Resort	1
Hattie	Rest-In-The-Pines Resort	0
Mann	Wildwood Beach Resort	4
Emily	Lake Emily Resort	3
Emily	Little Pine RV Park	0
Emily	Birch Beach Resort & RV	2
Little Boy	Little Boy Resort	0
Clark	Minnewawa Lodge	3
	total Cat 3	13
Loon	Rager's Acres	2
Loon	Loon Lake Tavern & Resort	0
Bass	Pine Crest Resort	0
	total Cat 4	2

Date: June 24, 1998

seq #	DOW Number	Name of Lake	category	total boats	cruiser	run- about	fishing	sailboat	pontoon	canoe kayak	jetski	wake	no wake	total boat type	total wake no wake
1	480002	Mille Lacs	1	145	11	62	54	2	14		2	49	96	145	145
2	110305	Gull	1	63	1	28	22	1	6	3	2	15	48	63	63
3	110222	Margaret	1	3		1	2					1	2	3	3
4	180399	Nisswa	1	0										0	0
5	180398	Roy	1	5		2	2			1		1	4	5	5
6	110218	Upper Gull	1	8		4	4					2	6	8	8
7	180388	Love	1	4		3	1					1	3	4	4
8	110220	Ray	1	4		2	2					2	2	4	4
9	180310	Whitefish	1	27	1	12	8	1	2		3	14	13	27	27
10	180366	Arrowhead	1	1			1						1	1	1
11	180355	Bertha	1	3			3						3	3	3
12	180315	Big Trout	1	9		3	1	2		2	1	2	7	9	9
13	180356	Clamshell	1	4		1	2			1			4	4	4
14	180312	Cross	1	17		5	4	1	3	2	2	5	12	17	17
15	180271	Daggett	1	4			2		1		1	3	1	4	4
16	180269	Island	1	2		1	1						2	2	2
17	180266	Little Pine	1	2			2						2	2	2
18	180378	Lower Hay	1	0										0	0
19	180354	Pig	1	4		2	2					2	2	4	4
20	180311	Rush	1	12		1	4		4	2	1	1	11	12	12
21	180308	Pelican	1	26		9	5	1	3	8		7	19	26	26
TOTAL FOR CATEGORY 1				343	13	136	122	8	33	19	12	105	238	343	343
22	110250	Ada	2-PA	5			5						5	5	5
23	180034	Bay	2-PA	10		3	3		3	1		4	6	10	10
24	101590	Farm Island	2-PA	11		6	4		1			3	8	11	11
25	180373	Round	2-PA	6			3		3			1	5	6	6
26	180251	Sandbar	2-PA	6			5				1	1	5	6	6
27	110304	Sylvan	2-PA	10		4	2		3		1	1	9	10	10
28	180020	Borden	2-PA	3			2		1				3	3	3
29	180038	Clearwater	2-PA	8		1	5			1	1		8	8	8
30	110120	Inguadona	2-PA	3			3						3	3	3
31	110162	Rice	2-PA	0										0	0
32	102040	Round	2-PA	2					2				2	2	2
33	110413	Ten Mile	2-PA	17		1	15	1				1	16	17	17
34	180375	Hubert	2-PA	39		8	7	21	3			27	12	39	39
35	110277	Big Deep	2-NPA	1			1						1	1	1

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TOTAL FOR CATEGORY 2-PA/NPA				121	0	23	55	22	16	2	3	38	83	121	121
seq	DOW	Name		total		run-				canoe				total	total wake
#	Number	of Lake	category	boats	cruiser	about	fishing	sailboat	pontoon	kayak	jetski	wake	no wake	boat type	no wake
36	180374	Clark	3-PA	4			2		1	1		1	3	4	4
37	180203	Emily	3-PA	5			5						5	5	5
38	180185	Mary	3-PA	3		1	1			1		1	2	3	3
39	110167	Little Boy	3-PA	7			7					1	6	7	7
40	101170	Nord	3-PA	1					1			1		1	1
41	101360	Waukenabo	3-PA	3			3						3	3	3
42	101470	Esquagamah	3-PA	3			3						3	3	3
43	110232	Hattie	3-NPA	5			5						5	5	5
44	110296	Moccasin	3-PA	1			1						1	1	1
45	180227	O'Brien	3-NPA	0										0	0
46	110282	Mann	3-NPA	2			2						2	2	2
TOTAL FOR CATEGORY 3-PA/NPA				34	0	1	29	0	2	2	0	4	30	34	34
47	180296	Eagle	4-PA	2			2						2	2	2
48	101320	Hansen	4-PA	0										0	0
49	110009	Little Thunder	4-PA	0										0	0
50	110226	Loon	4-PA	0										0	0
51	180379	White Sand	4-PA	2		1					1		2	2	2
52	101700	Hanging Kettle	4-PA	0										0	0
53	180256	Bass	4-PA	2			2					1	1	2	2
54	110292	Pine	4-PA	1			1						1	1	1
TOTAL FOR CATEGORY 4-PA				7	0	1	5	0	0	0	1	1	6	7	7

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PUBLIC  
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#	Lake #	Lake Name	Grid	#pa	Map	Count	Comments
1	110305	Gull	F3	3	Lower Cass	5	
2	110305	Gull	F4	3	Lower Cass	5	
3	110305	Gull	A4	3	Crow Wing	8	
4	180310	Whitefish	A2	1	Crow Wing	0	
5	180315	Big Trout	B2	1	Crow Wing	3	
6	180356	Clamshell	B2	1	Crow Wing	2	
7	180312	Cross	B2	2	Crow Wing	1	
8	180312	Cross	C2	2	Crow Wing	14	
9	180378	Lower Hay	A2	1	Crow Wing	3	
10	180354	Pig	B2	1	Crow Wing	0	
11	180308	Pelican	B3	4	Crow Wing	2	
12	180308	Pelican	B3	4	Crow Wing	21	
13	180308	Pelican	B3	4	Crow Wing	0	
14	180308	Pelican	B3	4	Crow Wing	0	
					total Cat 1	64	
15	110250	Ada	C7	1	Upper Cass	0	
16	180034	Bay	E5	1	Crow Wing	0	
17	10159	Farm Island	A4	1	Aitkin	5	
18	180373	Round	A4	1	Crow Wing	2	
19	180251	Sandbar	C3	1	Crow Wing	5	
20	110304	Sylvan	F4	1	Lower Cass	1	
21	180020	Borden	E6	1	Crow Wing	2	
22	180038	Clearwater	D5	1	Crow Wing	3	
23	110120	Inguadona	D6	1	Upper Cass	0	
24	10204	Round	A4	1	Aitkin	0	
25	110413	Ten Mile	A6	1	Upper Cass	0	
26	180375	Hubert	A4	1	Crow Wing	3	
					total Cat 2	21	
27	180374	Clark	A4	1	Crow Wing	0	
28	180203	Emily	D2	1	Crow Wing	1	
29	110167	Little Boy	D6	1	Upper Cass	2	
30	10117	Nord	B4	1	Aitkin	0	
31	10136	Waukenabo	B2	1	Aitkin	3	
32	10147	Esquagamah	B2	1	Aitkin	1	
33	110296	Moccasin	C5	1	Upper Cass	2	
					total Cat 3	9	
34	180296	Eagle	C1	1	Crow Wing	0	
35	10132	Hansen	B3	1	Aitkin	0	
36	110009	Little Thunder	F6	1	Upper Cass	0	
37	110226	Loon	F3	1	Lower Cass	0	
38	180379	White Sand	A5	1	Crow Wing	0	
39	10170	Hanging Kettle	A4	1	Aitkin	0	
40	180256	Bass	C3	1	Crow Wing	0	
41	110292	Pine	C5	1	Upper Cass	0	
					total Cat 4	0	

Date: June 24, 1998

RESORTS  
CAMPGROUNDS

#	Lake #	Lake Name	Business	Count	Comments
1	110218	Upper Gull	Point Narrows Resort	1	
2	110305	Gull	Cragun's Lodge	4	
3	110305	Gull	Madden's Resort	3	
4	110305	Gull	Grand View Lodge	5	
5	110305	Gull	Gull & Love Lk Cpgd	2	
6	110305	Gull	Causeway on Gull	1	
7	110305	Gull	Gull Four Seasons	0	
8	110305	Gull	Quarterdeck Resort	4	
9	110305	Gull	Sandy Beach Resort	1	
10	110305	Gull	Gull Lake Resort	3	
11	110305	Gull	Boberg's Resort	0	
12	180310	Whitefish	Boyd Lodge	4	
13	180310	Whitefish	McGuire's Piney Ridge	1	
14	180310	Whitefish	Driftwood Family Resort	0	
15	180310	Whitefish	Kilworry Resort	0	
16	180355	Bertha	Sunset Knoll Resort	0	
17	180308	Pelican	Breezy Point Resort	6	
18	180308	Pelican	Hart's RV/Motorhome Resort	2	
			total Cat 1	37	
19	10159	Farm Island	Farm Island Lake Resort	2	
20	10159	Farm Island	Ruby's Lakeview Resort	1	
21	110304	Sylvan	Kavanaugh's	2	
22	110413	Ten Mile	Quietwoods Campground	0	
23	110413	Ten Mile	Happiness Resort	0	
24	110413	Ten Mile	Pewick's Kenfield Resort	0	
25	180034	Bay	Rutger's Bay Lake Lodge	4	
26	180034	Bay	Dalois Campgrounds	2	
27	180375	Hubert	Beachland Cottages	1	
			total Cat 2	12	
28	110232	Hattie	Tuck-A-Way Resort	0	
29	110232	Hattie	Rest-In-The-Pines Resort	1	
30	110282	Mann	Wildwood Beach Resort	2	
31	180203	Emily	Lake Emily Resort	0	
32	180203	Emily	Little Pine RV Park	0	
33	180203	Emily	Birch Beach Resort & RV	2	
34	110167	Little Boy	Little Boy Resort	0	
35	180374	Clark	Minnewawa Lodge	1	
			total Cat 3	6	
36	110226	Loon	Rager's Acres	0	
37	110226	Loon	Loon Lake Tavern & Resort	0	
38	180256	Bass	Pine Crest Resort	0	
			total Cat 4	0	



June 24, 1999

RENTAL BOATS  
RESORTS CAMPGROUNDS

Lake Name	Business	Count
Upper Gull	Point Narrows Resort	3
Gull	Cragun's Lodge	6
Gull	Madden's Resort	3
Gull	Grand View Lodge	2
Gull	Gull & Love Lk Cpgd	0
Gull	Causeway on Gull	2
Gull	Gull Four Seasons	4
Gull	Quarterdeck Resort	4
Gull	Sandy Beach Resort	12
Gull	Gull Lake Resort	2
Gull	Boberg's Resort	0
Whitefish	Boyd Lodge	4
Whitefish	McGuire's Piney Ridge	1
Whitefish	Driftwood Family Resort	6
Whitefish	Kilworry Resort	8
Bertha	Sunset Knoll Resort	3
Pelican	Breezy Point Resort	9
Pelican	Hart's RV/Motorhome Resort	0
	total Cat 1	69
Farm Island	Farm Island Lake Resort	1
Farm Island	Ruby's Lakeview Resort	2
Sylvan	Kavanaugh's	9
Ten Mile	Quietwoods Campground	2
Ten Mile	Happiness Resort	4
Ten Mile	Pewick's Kenfield Resort	3
Bay	Rutger's Bay Lake Lodge	4
Bay	Dalois Campgrounds	1
Hubert	Beachland Cottages	1
	total Cat 2	27
Hattie	Tuck-A-Way Resort	1
Hattie	Rest-In-The-Pines Resort	0
Mann	Wildwood Beach Resort	5
Emily	Lake Emily Resort	3
Emily	Little Pine RV Park	0
Emily	Birch Beach Resort & RV	3
Little Boy	Little Boy Resort	0
Clark	Minnewawa Lodge	6
	total Cat 3	18
Loon	Rager's Acres	2
Loon	Loon Lake Tavern & Resort	0
Bass	Pine Crest Resort	0
	total Cat 4	2

Date: July 12, 1998

seq	DOW	Name		total		run-				canoe				total	total wake
#	Numbe	of Lake	category	boats	cruiser	about	fishing	sailboat	pontoon	kayak	jetski	wake	no wake	boat type	no wake
1	480002	Mille Lacs	1	206	6	75	120		5			20	186	206	206
2	110305	Gull	1	171		64	40	56	5		6	43	128	171	171
3	110222	Margaret	1	6		3	3					1	5	6	6
4	180399	Nisswa	1	0										0	0
5	180398	Roy	1	1			1						1	1	1
6	110218	Upper Gull	1	12		10	2					3	9	12	12
7	180388	Love	1	3		2	1					2	1	3	3
8	110220	Ray	1	8		4	2				2	1	7	8	8
9	180310	Whitefish	1	39		16	12	3	2		6	20	19	39	39
10	180366	Arrowhead	1	1			1						1	1	1
11	180355	Bertha	1	4			2	1	1				4	4	4
12	180315	Big Trout	1	20		6	4	2	2		6	8	12	20	20
13	180356	Clamshell	1	7			5	1	1			2	5	7	7
14	180312	Cross	1	24		8	6		3		7	13	11	24	24
15	180271	Daggett	1	2			1		1			1	1	2	2
16	180269	Island	1	4		2			2			3	1	4	4
17	180266	Little Pine	1	2			1		1				2	2	2
18	180378	Lower Hay	1	7		3	3		1				7	7	7
19	180354	Pig	1	3		3							3	3	3
20	180311	Rush	1	19		7	6		2	1	3	6	13	19	19
21	180308	Pelican	1	124		13	92	4	7		8	27	97	124	124
TOTAL FOR CATEGORY 1				663	6	216	302	67	33	1	38	150	513	663	663
22	110250	Ada	2-PA	6			5		1			3	3	6	6
23	180034	Bay	2-PA	18		9	5	1	3			6	12	18	18
24	101590	Farm Island	2-PA	20		5	12		3			3	17	20	20
25	180373	Round	2-PA	18		6	6		3		3	5	13	18	18
26	180251	Sandbar	2-PA	11		3	4	2	2			1	10	11	11
27	110304	Sylvan	2-PA	6			3		2		1	1	5	6	6
28	180020	Borden	2-PA	7			4		3			4	3	7	7
29	180038	Clearwater	2-PA	9		1	6		2			2	7	9	9
30	110120	Inguadona	2-PA	8			6		1		1		8	8	8
31	110162	Rice	2-PA	0										0	0
32	102040	Round	2-PA	4		1	3						4	4	4
33	110413	Ten Mile	2-PA	9		4	3		2			5	4	9	9
34	180375	Hubert	2-PA	13		2	3	3	4		1	3	10	13	13
35	110277	Big Deep	2-NPA	2			2						2	2	2

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TOTAL FOR CATEGORY 2-PA/NPA				131	0	31	62	6	26	0	6	33	98	131	131
seq	DOW	Name		total		run-				canoe				total	total wake
#	Numbe	of Lake	category	boats	cruiser	about	fishing	sailboat	pontoon	kayak	jetski	wake	no wake	boat type	no wake
36	180374	Clark	3-PA	3		1	1	1					3	3	3
37	180203	Emily	3-PA	2			2						2	2	2
38	180185	Mary	3-PA	4			3		1				4	4	4
39	110167	Little Boy	3-PA	10		5	4		1			7	3	10	10
40	101170	Nord	3-PA	3			3						3	3	3
41	101360	Waukenabo	3-PA	6			4		2				2	6	2
42	101470	Esquagamah	3-PA	8			6		2				8	8	8
43	110232	Hattie	3-NPA	6			5		1				6	6	6
44	110296	Moccasin	3-PA	2			1				1	1	1	2	2
45	180227	O'Brien	3-NPA	6			4		2			3	3	6	6
46	110282	Mann	3-NPA	5			5						5	5	5
TOTAL FOR CATEGORY 3-PA/NPA				55	0	6	38	1	9	0	1	11	40	55	51
47	180296	Eagle	4-PA	3			2		1			1	2	3	3
48	101320	Hansen	4-PA	1			1						1	1	1
49	110009	Little Thunder	4-PA	0										0	0
50	110226	Loon	4-PA	2		1	1						2	2	2
51	180379	White Sand	4-PA	3		1	2						3	3	3
52	101700	Hanging Kettle	4-PA	1			1						1	1	1
53	180256	Bass	4-PA	6		2	4					1	5	6	6
54	110292	Pine	4-PA	4			4					1	3	4	4
TOTAL FOR CATEGORY 4-PA				20	0	4	15	0	1	0	0	3	17	20	20

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PUBLIC  
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#	Lake #	Lake Name	Grid	#pa	Map	Count	Comments
1	110305	Gull	F3	3	Lower Cass	24	
2	110305	Gull	F4	3	Lower Cass	10	
3	110305	Gull	A4	3	Crow Wing	12	
4	180310	Whitefish	A2	1	Crow Wing	6	
5	180315	Big Trout	B2	1	Crow Wing	4	
6	180356	Clamshell	B2	1	Crow Wing	2	
7	180312	Cross	B2	2	Crow Wing	5	
8	180312	Cross	C2	2	Crow Wing	28	
9	180378	Lower Hay	A2	1	Crow Wing	9	
10	180354	Pig	B2	1	Crow Wing	0	
11	180308	Pelican	B3	4	Crow Wing	3	
12	180308	Pelican	B3	4	Crow Wing	11	
13	180308	Pelican	B3	4	Crow Wing	86	
14	180308	Pelican	B3	4	Crow Wing	27	
					total Cat 1	227	
15	110250	Ada	C7	1	Upper Cass	0	
16	180034	Bay	E5	1	Crow Wing	4	
17	10159	Farm Island	A4	1	Aitkin	2	
18	180373	Round	A4	1	Crow Wing	1	
19	180251	Sandbar	C3	1	Crow Wing	2	
20	110304	Sylvan	F4	1	Lower Cass	3	
21	180020	Borden	E6	1	Crow Wing	5	
22	180038	Clearwater	D5	1	Crow Wing	4	
23	110120	Inguadona	D6	1	Upper Cass	2	
24	10204	Round	A4	1	Aitkin	4	
25	110413	Ten Mile	A6	1	Upper Cass	2	
26	180375	Hubert	A4	1	Crow Wing	2	
					total Cat 2	31	
27	180374	Clark	A4	1	Crow Wing	1	
28	180203	Emily	D2	1	Crow Wing	2	
29	110167	Little Boy	D6	1	Upper Cass	3	
30	10117	Nord	B4	1	Aitkin	3	
31	10136	Waukenabo	B2	1	Aitkin	0	
32	10147	Esquagamah	B2	1	Aitkin	2	
33	110296	Moccasin	C5	1	Upper Cass	1	
					total Cat 3	12	
34	180296	Eagle	C1	1	Crow Wing	0	
35	10132	Hansen	B3	1	Aitkin	1	
36	110009	Little Thunder	F6	1	Upper Cass	0	
37	110226	Loon	F3	1	Lower Cass	1	
38	180379	White Sand	A5	1	Crow Wing	0	
39	10170	Hanging Kettle	A4	1	Aitkin	0	
40	180256	Bass	C3	1	Crow Wing	5	
41	110292	Pine	C5	1	Upper Cass	2	
					total Cat 4	9	

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RESORTS  
CAMPGROUNDS

#	Lake #	Lake Name	Business	Count	Comments
1	110218	Upper Gull	Point Narrows Resort	4	
2	110305	Gull	Cragun's Lodge	15	
3	110305	Gull	Madden's Resort	16	
4	110305	Gull	Grand View Lodge	11	
5	110305	Gull	Gull & Love Lk Cpgd	8	
6	110305	Gull	Causeway on Gull	3	
7	110305	Gull	Gull Four Seasons	5	
8	110305	Gull	Quarterdeck Resort	4	
9	110305	Gull	Sandy Beach Resort	3	
10	110305	Gull	Gull Lake Resort	5	
11	110305	Gull	Boberg's Resort	3	
12	180310	Whitefish	Boyd Lodge	4	
13	180310	Whitefish	McGuire's Piney Ridge	1	
14	180310	Whitefish	Driftwood Family Resort	1	
15	180310	Whitefish	Kilworry Resort	0	
16	180355	Bertha	Sunset Knoll Resort	4	
17	180308	Pelican	Breezy Point Resort	15	
18	180308	Pelican	Hart's RV/Motorhome Resort	14	
			total Cat 1	116	
19	10159	Farm Island	Farm Island Lake Resort	3	
20	10159	Farm Island	Ruby's Lakeview Resort	1	
21	110304	Sylvan	Kavanaugh's	3	
22	110413	Ten Mile	Quietwoods Campground	2	
23	110413	Ten Mile	Happiness Resort	0	
24	110413	Ten Mile	Pewick's Kenfield Resort	0	
25	180034	Bay	Rutger's Bay Lake Lodge	9	
26	180034	Bay	Dalois Campgrounds	6	
27	180375	Hubert	Beachland Cottages	2	
			total Cat 2	26	
28	110232	Hattie	Tuck-A-Way Resort	1	
29	110232	Hattie	Rest-In-The-Pines Resort	0	
30	110282	Mann	Wildwood Beach Resort	2	
31	180203	Emily	Lake Emily Resort	1	
32	180203	Emily	Little Pine RV Park	3	
33	180203	Emily	Birch Beach Resort & RV	1	
34	110167	Little Boy	Little Boy Resort	3	
35	180374	Clark	Minnewawa Lodge	0	
			total Cat 3	11	
36	110226	Loon	Rager's Acres	2	
37	110226	Loon	Loon Lake Tavern & Resort	2	
38	180256	Bass	Pine Crest Resort	0	
			total Cat 4	4	

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# RENTAL BOATS RESORTS CAMPGROUNDS

Lake Name	Business	Count
Upper Gull	Point Narrows Resort	4
Gull	Cragun's Lodge	13
Gull	Madden's Resort	13
Gull	Grand View Lodge	4
Gull	Gull & Love Lk Cpgd	1
Gull	Causeway on Gull	9
Gull	Gull Four Seasons	6
Gull	Quarterdeck Resort	7
Gull	Sandy Beach Resort	19
Gull	Gull Lake Resort	2
Gull	Boberg's Resort	0
Whitefish	Boyd Lodge	7
Whitefish	McGuire's Piney Ridge	5
Whitefish	Driftwood Family Resort	4
Whitefish	Kilworry Resort	10
Bertha	Sunset Knoll Resort	3
Pelican	Breezy Point Resort	10
Pelican	Hart's RV/Motorhome Resort	0
	total Cat 1	117
Farm Island	Farm Island Lake Resort	2
Farm Island	Ruby's Lakeview Resort	3
Sylvan	Kavanaugh's	10
Ten Mile	Quietwoods Campground	5
Ten Mile	Happiness Resort	6
Ten Mile	Pewick's Kenfield Resort	3
Bay	Rutger's Bay Lake Lodge	4
Bay	Dalois Campgrounds	0
Hubert	Beachland Cottages	5
	total Cat 2	38
Hattie	Tuck-A-Way Resort	1
Hattie	Rest-In-The-Pines Resort	0
Mann	Wildwood Beach Resort	4
Emily	Lake Emily Resort	1
Emily	Little Pine RV Park	0
Emily	Birch Beach Resort & RV	2
Little Boy	Little Boy Resort	0
Clark	Minnewawa Lodge	3
	total Cat 3	11
Loon	Rager's Acres	2
Loon	Loon Lake Tavern & Resort	1
Bass	Pine Crest Resort	0
	total Cat 4	3

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seq	DOW	Name		total		run-				canoe				total	total wake
#	Number	of Lake	category	boats	cruiser	about	fishing	sailboat	pontoon	kayak	jetski	wake	no wake	boat type	no wake
1	480002	Mille Lacs	1	171	4	100	57	4	2		4	70	101	171	171
2	110305	Gull	1	71	1	20	13	8	19		10	50	21	71	71
3	110222	Margaret	1	13		5	3		3		2	8	5	13	13
4	180399	Nisswa	1	5		1	2		2			2	3	5	5
5	180398	Roy	1	10		4	2		3		1	7	3	10	10
6	110218	Upper Gull	1	23		8	6		4	3	2	10	13	23	23
7	180388	Love	1	2			2						2	2	2
8	110220	Ray	1	2		1			1			1	1	2	2
9	180310	Whitefish	1	58		38	13	2			5	40	18	58	58
10	180366	Arrowhead	1	2				1	1				2	2	2
11	180355	Bertha	1	4		4						3	1	4	4
12	180315	Big Trout	1	18		10	2	2	3		1	16	2	18	18
13	180356	Clamshell	1	7		3	3		1			4	3	7	7
14	180312	Cross	1	36		15	9	1	6		5	30	6	36	36
15	180271	Daggett	1	12		1	8	3				3	9	12	12
16	180269	Island	1	3			3					1	2	3	3
17	180266	Little Pine	1	6		1	2		2		1	2	4	6	6
18	180378	Lower Hay	1	14		11	2		1			12	2	14	14
19	180354	Pig	1	5		4	1					4	1	5	5
20	180311	Rush	1	24		12	4		6		2	15	9	24	24
21	180308	Pelican	1	43		21	10	2	6		4	33	10	43	43
TOTAL FOR CATEGORY 1				529	5	259	142	23	60	3	37	311	218	529	529
22	110250	Ada	2-PA	9		1	4	1	1		2	1	8	9	9
23	180034	Bay	2-PA	36		8	5	3	10	2	8	23	13	36	36
24	101590	Farm Island	2-PA	26		3	23					5	21	26	26
25	180373	Round	2-PA	10			4		2		4	4	6	10	10
26	180251	Sandbar	2-PA	19		12	3	1	3			10	9	19	19
27	110304	Sylvan	2-PA	8		2	6					3	5	8	8
28	180020	Borden	2-PA	11		5	4		1		1	6	5	11	11
29	180038	Clearwater	2-PA	8			6		2			3	5	8	8
30	110120	Inguadona	2-PA	3			3						3	3	3
31	110162	Rice	2-PA	0										0	0
32	102040	Round	2-PA	18		5	4	2	3		4	12	6	18	18
33	110413	Ten Mile	2-PA	10		3	2	1	2		2	5	5	10	10
34	180375	Hubert	2-PA	19		5	12		2			3	16	19	19
35	110277	Big Deep	2-NPA	2			2					1	1	2	2

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TOTAL FOR CATEGORY 2-PA/NPA				179	0	44	78	8	26	2	21	76	103	179	179
seq	DOW	Name		total		run-				canoe				total	total wake
#	Number	of Lake	category	boats	cruiser	about	fishing	sailboat	pontoon	kayak	jetski	wake	no wake	boat type	no wake
36	180374	Clark	3-PA	1					1				1	1	1
37	180203	Emily	3-PA	4			2		2			1	3	4	4
38	180185	Mary	3-PA	6			4		2				6	6	6
39	110167	Little Boy	3-PA	10		1	7		1	1		1	9	10	10
40	101170	Nord	3-PA	1					1			1		1	1
41	101360	Waukenabo	3-PA	3			2			1			3	3	3
42	101470	Esquagamah	3-PA	6			4		2			1	5	6	6
43	110232	Hattie	3-NPA	5			5					1	4	5	5
44	110296	Moccasin	3-PA	1			1						1	1	1
45	180227	O'Brien	3-NPA	2		2							2	2	2
46	110282	Mann	3-NPA	5			4		1			1	4	5	5
TOTAL FOR CATEGORY 3-PA/NPA				44	0	3	29	0	10	2	0	6	38	44	44
47	180296	Eagle	4-PA	1			1						1	1	1
48	101320	Hansen	4-PA	0										0	0
49	110009	Little Thunder	4-PA	0										0	0
50	110226	Loon	4-PA	11		2	3		2		4	7	4	11	11
51	180379	White Sand	4-PA	1					1			1		1	1
52	101700	Hanging Kettle	4-PA	2			2						2	2	2
53	180256	Bass	4-PA	5		1	3		1			2	3	5	5
54	110292	Pine	4-PA	0										0	0
TOTAL FOR CATEGORY 4-PA				20	0	3	9	0	4	0	4	10	10	20	20



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PUBLIC  
ACCESSES

#	Lake #	Lake Name	Grid	#pa	Map	Count	Comments
1	110305	Gull	F3	3	Lower Cass	6	
2	110305	Gull	F4	3	Lower Cass	9	
3	110305	Gull	A4	3	Crow Wing	18	
4	180310	Whitefish	A2	1	Crow Wing	5	
5	180315	Big Trout	B2	1	Crow Wing	1	
6	180356	Clamshell	B2	1	Crow Wing	1	
7	180312	Cross	B2	2	Crow Wing	24	
8	180312	Cross	C2	2	Crow Wing	7	
9	180378	Lower Hay	A2	1	Crow Wing	8	
10	180354	Pig	B2	1	Crow Wing	0	
11	180308	Pelican	B3	4	Crow Wing	3	
12	180308	Pelican	B3	4	Crow Wing	3	
13	180308	Pelican	B3	4	Crow Wing	30	
14	180308	Pelican	B3	4	Crow Wing	2	
					total Cat 1	117	
15	110250	Ada	C7	1	Upper Cass	1	
16	180034	Bay	E5	1	Crow Wing	5	
17	10159	Farm Island	A4	1	Aitkin	15	
18	180373	Round	A4	1	Crow Wing	3	
19	180251	Sandbar	C3	1	Crow Wing	6	
20	110304	Sylvan	F4	1	Lower Cass	7	
21	180020	Borden	E6	1	Crow Wing	5	
22	180038	Clearwater	D5	1	Crow Wing	5	
23	110120	Inguadona	D6	1	Upper Cass	3	
24	10204	Round	A4	1	Aitkin	1	
25	110413	Ten Mile	A6	1	Upper Cass	0	
26	180375	Hubert	A4	1	Crow Wing	7	
					total Cat 2	58	
27	180374	Clark	A4	1	Crow Wing	0	
28	180203	Emily	D2	1	Crow Wing	0	
29	110167	Little Boy	D6	1	Upper Cass	7	
30	10117	Nord	B4	1	Aitkin	0	
31	10136	Waukenabo	B2	1	Aitkin	0	
32	10147	Esquagamah	B2	1	Aitkin	3	
33	110296	Moccasin	C5	1	Upper Cass	2	
					total Cat 3	12	
34	180296	Eagle	C1	1	Crow Wing	0	
35	10132	Hansen	B3	1	Aitkin	0	
36	110009	Little Thunder	F6	1	Upper Cass	1	
37	110226	Loon	F3	1	Lower Cass	4	
38	180379	White Sand	A5	1	Crow Wing	0	
39	10170	Hanging Kettle	A4	1	Aitkin	2	
40	180256	Bass	C3	1	Crow Wing	3	
41	110292	Pine	C5	1	Upper Cass	0	
					total Cat 4	10	

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RESORTS  
CAMPGROUNDS

#	Lake #	Lake Name	Business	Count	Comments
1	110218	Upper Gull	Point Narrows Resort	2	
2	110305	Gull	Cragun's Lodge	8	
3	110305	Gull	Madden's Resort	9	
4	110305	Gull	Grand View Lodge	1	
5	110305	Gull	Gull & Love Lk Cpgd	4	
6	110305	Gull	Causeway on Gull	1	
7	110305	Gull	Gull Four Seasons	0	
8	110305	Gull	Quarterdeck Resort	2	
9	110305	Gull	Sandy Beach Resort	0	
10	110305	Gull	Gull Lake Resort	3	
11	110305	Gull	Boberg's Resort	2	
12	180310	Whitefish	Boyd Lodge	4	
13	180310	Whitefish	McGuire's Piney Ridge	4	
14	180310	Whitefish	Driftwood Family Resort	1	
15	180310	Whitefish	Kilworry Resort	6	
16	180355	Bertha	Sunset Knoll Resort	2	
17	180308	Pelican	Breezy Point Resort	12	
18	180308	Pelican	Hart's RV/Motorhome Resort	6	
			total Cat 1	67	
19	10159	Farm Island	Farm Island Lake Resort	3	
20	10159	Farm Island	Ruby's Lakeview Resort	2	
21	110304	Sylvan	Kavanaugh's	0	
22	110413	Ten Mile	Quietwoods Campground	0	
23	110413	Ten Mile	Happiness Resort	1	
24	110413	Ten Mile	Pewick's Kenfield Resort	2	
25	180034	Bay	Rutger's Bay Lake Lodge	7	
26	180034	Bay	Dalois Campgrounds	1	
27	180375	Hubert	Beachland Cottages	0	
			total Cat 2	16	
28	110232	Hattie	Tuck-A-Way Resort	2	
29	110232	Hattie	Rest-In-The-Pines Resort	1	
30	110282	Mann	Wildwood Beach Resort	4	
31	180203	Emily	Lake Emily Resort	1	
32	180203	Emily	Little Pine RV Park	2	
33	180203	Emily	Birch Beach Resort & RV	0	
34	110167	Little Boy	Little Boy Resort	2	
35	180374	Clark	Minnewawa Lodge	0	
			total Cat 3	12	
36	110226	Loon	Rager's Acres	1	
37	110226	Loon	Loon Lake Tavern & Resort	0	
38	180256	Bass	Pine Crest Resort	1	
			total Cat 4	2	

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# RENTAL BOATS RESORTS CAMPGROUNDS

Lake Name	Business	Count
Upper Gull	Point Narrows Resort	6
Gull	Cragun's Lodge	4
Gull	Madden's Resort	4
Gull	Grand View Lodge	8
Gull	Gull & Love Lk Cpgd	0
Gull	Causeway on Gull	5
Gull	Gull Four Seasons	9
Gull	Quarterdeck Resort	7
Gull	Sandy Beach Resort	8
Gull	Gull Lake Resort	7
Gull	Boberg's Resort	0
Whitefish	Boyd Lodge	4
Whitefish	McGuire's Piney Ridge	4
Whitefish	Driftwood Family Resort	4
Whitefish	Kilworry Resort	6
Bertha	Sunset Knoll Resort	8
Pelican	Breezy Point Resort	9
Pelican	Hart's RV/Motorhome Resort	0
	total Cat 1	93
Farm Island	Farm Island Lake Resort	2
Farm Island	Ruby's Lakeview Resort	3
Sylvan	Kavanaugh's	10
Ten Mile	Quietwoods Campground	5
Ten Mile	Happiness Resort	6
Ten Mile	Pewick's Kenfield Resort	3
Bay	Rutger's Bay Lake Lodge	4
Bay	Dalois Campgrounds	0
Hubert	Beachland Cottages	5
	total Cat 2	38
Hattie	Tuck-A-Way Resort	1
Hattie	Rest-In-The-Pines Resort	0
Mann	Wildwood Beach Resort	2
Emily	Lake Emily Resort	2
Emily	Little Pine RV Park	0
Emily	Birch Beach Resort & RV	2
Little Boy	Little Boy Resort	2
Clark	Minnewawa Lodge	3
	total Cat 3	12
Loon	Rager's Acres	1
Loon	Loon Lake Tavern & Resort	2
Bass	Pine Crest Resort	0
	total Cat 4	3

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seq #	DOW Number	Name of Lake	category	total boats	cruiser	run- about	fishing	sailboat	pontoon	canoe kayak	jetski	wake	no wake	total boat type	total wake no wake
1	480002	Mille Lacs	1	70	4	32	26	6	2			19	51	70	70
2	110305	Gull	1	35		14	12	4			5	12	23	35	35
3	110222	Margaret	1	3			3						3	3	3
4	180399	Nisswa	1	4		2			1		1	1	3	4	4
5	180398	Roy	1	2			2					1	1	2	2
6	110218	Upper Gull	1	10		4	3				3	1	9	10	10
7	180388	Love	1	3			1		1		1	2	1	3	3
8	110220	Ray	1	1			1						1	1	1
9	180310	Whitefish	1	20		5	8	1	4	1	1	11	9	20	20
10	180366	Arrowhead	1	0										0	0
11	180355	Bertha	1	0										0	0
12	180315	Big Trout	1	15		6	5			1	3	4	11	15	15
13	180356	Clamshell	1	0										0	0
14	180312	Cross	1	30		17	13					14	16	30	30
15	180271	Daggett	1	7			6	1					7	7	7
16	180269	Island	1	10			2		3		5	2	8	10	10
17	180266	Little Pine	1	2			2						2	2	2
18	180378	Lower Hay	1	2			2						2	2	2
19	180354	Pig	1	10		3	3			1	3	3	7	10	10
20	180311	Rush	1	23		10	7		4		2	12	11	23	23
21	180308	Pelican	1	25		8	2	9	4	2		8	17	25	25
TOTAL FOR CATEGORY 1				272	4	101	98	21	19	5	24	90	182	272	272
22	110250	Ada	2-PA	6		3	3						6	6	6
23	180034	Bay	2-PA	17		5	6		3	3		2	15	17	17
24	101590	Farm Island	2-PA	12		2	8		2			7	5	12	12
25	180373	Round	2-PA	4			2				2	3	1	4	4
26	180251	Sandbar	2-PA	6		1	2	2			1	3	3	6	6
27	110304	Sylvan	2-PA	5			2		2		1	3	2	5	5
28	180020	Borden	2-PA	8		3	4				1	2	6	8	8
29	180038	Clearwater	2-PA	7		3	3		1			3	4	7	7
30	110120	Inguadona	2-PA	2			1		1				2	2	2
31	110162	Rice	2-PA	0										0	0
32	102040	Round	2-PA	5		3	2					2	3	5	5
33	110413	Ten Mile	2-PA	13		2	6	5				5	8	13	13
34	180375	Hubert	2-PA	40		4	8	28				11	29	40	40
35	110277	Big Deep	2-NPA	8		3	3		2			3	5	8	8

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TOTAL FOR CATEGORY 2-PA/NPA				133	0	29	50	35	11	3	5	44	89	133	133
seq	DOW	Name		total		run-				canoe				total	total wake
#	Number	of Lake	category	boats	cruiser	about	fishing	sailboat	pontoon	kayak	jetski	wake	no wake	boat type	no wake
36	180374	Clark	3-PA	4			2		1		1	1	3	4	4
37	180203	Emily	3-PA	1			1						1	1	1
38	180185	Mary	3-PA	0										0	0
39	110167	Little Boy	3-PA	7		4	3					3	4	7	7
40	101170	Nord	3-PA	1			1						1	1	1
41	101360	Waukenabo	3-PA	1			1						1	1	1
42	101470	Esquagamah	3-PA	0										0	0
43	110232	Hattie	3-NPA	4		2	2					2	2	4	4
44	110296	Moccasin	3-PA	4		1	3						4	4	4
45	180227	O'Brien	3-NPA	0										0	0
46	110282	Mann	3-NPA	6		5			1				6	6	6
TOTAL FOR CATEGORY 3-PA/NPA				28	0	12	13	0	2	0	1	6	22	28	28
47	180296	Eagle	4-PA	1						1			1	1	1
48	101320	Hansen	4-PA	0										0	0
49	110009	Little Thunder	4-PA	0										0	0
50	110226	Loon	4-PA	1			1					1		1	1
51	180379	White Sand	4-PA	3			3					2	1	3	3
52	101700	Hanging Kettle	4-PA	3		1	2						3	3	3
53	180256	Bass	4-PA	5		1	2		2			2	3	5	5
54	110292	Pine	4-PA	4		1	3						4	4	4
TOTAL FOR CATEGORY 4-PA				17	0	3	11	0	2	1	0	5	12	17	17

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PUBLIC  
ACCESSES

#	Lake #	Lake Name	Grid	#pa	Map	Count	Comments
1	110305	Gull	F3	3	Lower Cass	5	
2	110305	Gull	F4	3	Lower Cass	9	
3	110305	Gull	A4	3	Crow Wing	3	
4	180310	Whitefish	A2	1	Crow Wing	1	
5	180315	Big Trout	B2	1	Crow Wing	3	
6	180356	Clamshell	B2	1	Crow Wing	0	
7	180312	Cross	B2	2	Crow Wing	19	
8	180312	Cross	C2	2	Crow Wing	3	
9	180378	Lower Hay	A2	1	Crow Wing	5	
10	180354	Pig	B2	1	Crow Wing	6	
11	180308	Pelican	B3	4	Crow Wing	2	
12	180308	Pelican	B3	4	Crow Wing	12	
13	180308	Pelican	B3	4	Crow Wing	2	
14	180308	Pelican	B3	4	Crow Wing	0	
					total Cat 1	70	
15	110250	Ada	C7	1	Upper Cass	0	
16	180034	Bay	E5	1	Crow Wing	10	
17	10159	Farm Island	A4	1	Aitkin	2	
18	180373	Round	A4	1	Crow Wing	1	
19	180251	Sandbar	C3	1	Crow Wing	2	
20	110304	Sylvan	F4	1	Lower Cass	2	
21	180020	Borden	E6	1	Crow Wing	3	
22	180038	Clearwater	D5	1	Crow Wing	4	
23	110120	Inguadona	D6	1	Upper Cass	1	
24	10204	Round	A4	1	Aitkin	5	
25	110413	Ten Mile	A6	1	Upper Cass	0	
26	180375	Hubert	A4	1	Crow Wing	8	
					total Cat 2	38	
27	180374	Clark	A4	1	Crow Wing	1	
28	180203	Emily	D2	1	Crow Wing	0	
29	110167	Little Boy	D6	1	Upper Cass	1	
30	10117	Nord	B4	1	Aitkin	0	
31	10136	Waukenabo	B2	1	Aitkin	0	
32	10147	Esquagamah	B2	1	Aitkin	0	
33	110296	Moccasin	C5	1	Upper Cass	3	
					total Cat 3	5	
34	180296	Eagle	C1	1	Crow Wing	0	
35	10132	Hansen	B3	1	Aitkin	0	
36	110009	Little Thunder	F6	1	Upper Cass	0	
37	110226	Loon	F3	1	Lower Cass	0	
38	180379	White Sand	A5	1	Crow Wing	0	
39	10170	Hanging Kettle	A4	1	Aitkin	1	
40	180256	Bass	C3	1	Crow Wing	5	
41	110292	Pine	C5	1	Upper Cass	3	
					total Cat 4	9	

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RESORTS  
CAMPGROUNDS

#	Lake #	Lake Name	Business	Count	Comments
1	110218	Upper Gull	Point Narrows Resort	2	
2	110305	Gull	Cragun's Lodge	6	
3	110305	Gull	Madden's Resort	4	
4	110305	Gull	Grand View Lodge	3	
5	110305	Gull	Gull & Love Lk Cpgd	0	
6	110305	Gull	Causeway on Gull	2	
7	110305	Gull	Gull Four Seasons	5	
8	110305	Gull	Quarterdeck Resort	0	
9	110305	Gull	Sandy Beach Resort	0	
10	110305	Gull	Gull Lake Resort	2	
11	110305	Gull	Boberg's Resort	1	
12	180310	Whitefish	Boyd Lodge	3	
13	180310	Whitefish	McGuire's Piney Ridge	0	
14	180310	Whitefish	Driftwood Family Resort	0	
15	180310	Whitefish	Kilworry Resort	2	
16	180355	Bertha	Sunset Knoll Resort	2	
17	180308	Pelican	Breezy Point Resort	8	
18	180308	Pelican	Hart's RV/Motorhome Resort	4	
			total Cat 1	44	
19	10159	Farm Island	Farm Island Lake Resort	3	
20	10159	Farm Island	Ruby's Lakeview Resort	2	
21	110304	Sylvan	Kavanaugh's	0	
22	110413	Ten Mile	Quietwoods Campground	0	
23	110413	Ten Mile	Happiness Resort	1	
24	110413	Ten Mile	Pewick's Kenfield Resort	1	
25	180034	Bay	Rutger's Bay Lake Lodge	6	
26	180034	Bay	Dalois Campgrounds	3	
27	180375	Hubert	Beachland Cottages	1	
			total Cat 2	17	
28	110232	Hattie	Tuck-A-Way Resort	0	
29	110232	Hattie	Rest-In-The-Pines Resort	0	
30	110282	Mann	Wildwood Beach Resort	2	
31	180203	Emily	Lake Emily Resort	1	
32	180203	Emily	Little Pine RV Park	0	
33	180203	Emily	Birch Beach Resort & RV	0	
34	110167	Little Boy	Little Boy Resort	2	
35	180374	Clark	Minnewawa Lodge	1	
			total Cat 3	6	
36	110226	Loon	Rager's Acres	0	
37	110226	Loon	Loon Lake Tavern & Resort	0	
38	180256	Bass	Pine Crest Resort	1	
			total Cat 4	1	

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# RENTAL BOATS RESORTS CAMPGROUNDS

Lake Name	Business	Count
Upper Gull	Point Narrows Resort	7
Gull	Cragun's Lodge	4
Gull	Madden's Resort	5
Gull	Grand View Lodge	7
Gull	Gull & Love Lk Cpgd	1
Gull	Causeway on Gull	5
Gull	Gull Four Seasons	5
Gull	Quarterdeck Resort	9
Gull	Sandy Beach Resort	10
Gull	Gull Lake Resort	6
Gull	Boberg's Resort	0
Whitefish	Boyd Lodge	3
Whitefish	McGuire's Piney Ridge	3
Whitefish	Driftwood Family Resort	6
Whitefish	Kilworry Resort	4
Bertha	Sunset Knoll Resort	7
Pelican	Breezy Point Resort	4
Pelican	Hart's RV/Motorhome Resort	0
	total Cat 1	86
Farm Island	Farm Island Lake Resort	5
Farm Island	Ruby's Lakeview Resort	5
Sylvan	Kavanaugh's	8
Ten Mile	Quietwoods Campground	7
Ten Mile	Happiness Resort	6
Ten Mile	Pewick's Kenfield Resort	4
Bay	Rutger's Bay Lake Lodge	18
Bay	Dalois Campgrounds	2
Hubert	Beachland Cottages	1
	total Cat 2	56
Hattie	Tuck-A-Way Resort	0
Hattie	Rest-In-The-Pines Resort	0
Mann	Wildwood Beach Resort	3
Emily	Lake Emily Resort	1
Emily	Little Pine RV Park	0
Emily	Birch Beach Resort & RV	2
Little Boy	Little Boy Resort	2
Clark	Minnewawa Lodge	5
	total Cat 3	13
Loon	Rager's Acres	1
Loon	Loon Lake Tavern & Resort	1
Bass	Pine Crest Resort	0
	total Cat 4	2



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seq	DOW	Name		total		run-				canoe				total	total wake
#	Number	of Lake	category	boats	cruiser	about	fishing	sailboat	pontoon	kayak	jetski	wake	no wake	boat type	no wake
1	480002	Mille Lacs	1	152	12	82	48	2	4		4	50	102	152	152
2	110305	Gull	1	65		26	20	3	9		7	22	43	65	65
3	110222	Margaret	1	4		1	2		1				4	4	4
4	180399	Nisswa	1	2					1	1			2	2	2
5	180398	Roy	1	12		3	4		1		4	7	5	12	12
6	110218	Upper Gull	1	17		8	1		6		2	5	12	17	17
7	180388	Love	1	2			1			1			2	2	2
8	110220	Ray	1	3		2			1				3	3	3
9	180310	Whitefish	1	86	3	30	25	4	14		10	29	57	86	86
10	180366	Arrowhead	1	2					1		1	1	1	2	2
11	180355	Bertha	1	11		5		2	2		2	5	6	11	11
12	180315	Big Trout	1	19		8	8		1		2	12	7	19	19
13	180356	Clamshell	1	12		6	5			1		1	11	12	12
14	180312	Cross	1	52		26	24	1		1		18	34	52	52
15	180271	Daggett	1	17		6	5		5		1	6	11	17	17
16	180269	Island	1	5		1	1		1		2	3	2	5	5
17	180266	Little Pine	1	7		1	2		4			3	4	7	7
18	180378	Lower Hay	1	9		4	3	1			1	3	6	9	9
19	180354	Pig	1	7		2	3		2			4	3	7	7
20	180311	Rush	1	26		10			7	1	8	10	16	26	26
21	180308	Pelican	1	69		40	5	2	10		12	23	46	69	69
TOTAL FOR CATEGORY 1				579	15	261	157	15	70	5	56	202	377	579	579
22	110250	Ada	2-PA	8		4	2		1		1	5	3	8	8
23	180034	Bay	2-PA	31		4	5		13		9	9	22	31	31
24	101590	Farm Island	2-PA	24		5	10	2	4		3	11	13	24	24
25	180373	Round	2-PA	12		6	4		1	1		4	8	12	12
26	180251	Sandbar	2-PA	17		6	4	1	3		3	6	11	17	17
27	110304	Sylvan	2-PA	10		2	7			1		1	9	10	10
28	180020	Borden	2-PA	7		2	3		2			2	5	7	7
29	180038	Clearwater	2-PA	5			4		1			1	4	5	5
30	110120	Inguadona	2-PA	6		4	1		1			6		6	6
31	110162	Rice	2-PA	2					2				2	2	2
32	102040	Round	2-PA	9		1	7		1			3	6	9	9
33	110413	Ten Mile	2-PA	20		7	8		3	1	1	5	15	20	20
34	180375	Hubert	2-PA	36		4	6	21	5			9	27	36	36
35	110277	Big Deep	2-NPA	5		1	2		2			1	4	5	5

Date: August 2, 1998

TOTAL FOR CATEGORY 2-PA/NPA				192	0	46	63	24	39	3	17	63	129	192	192
seq	DOW	Name		total		run-				canoe				total	total wake
#	Number	of Lake	category	boats	cruiser	about	fishing	sailboat	pontoon	kayak	jetski	wake	no wake	boat type	no wake
36	180374	Clark	3-PA	7			4		3			3	4	7	7
37	180203	Emily	3-PA	4		1	3						4	4	4
38	180185	Mary	3-PA	2			2						2	2	2
39	110167	Little Boy	3-PA	6		2	1		1	2		6		6	6
40	101170	Nord	3-PA	5		3	2					1	4	5	5
41	101360	Waukenabo	3-PA	5			2		2	1		2	3	5	5
42	101470	Esquagamah	3-PA	10			6	1	3			2	8	10	10
43	110232	Hattie	3-NPA	3			2			1			3	3	3
44	110296	Moccasin	3-PA	2		1	1					1	1	2	2
45	180227	O'Brien	3-NPA	4			1		3			1	3	4	4
46	110282	Mann	3-NPA	5		2	3					2	3	5	5
TOTAL FOR CATEGORY 3-PA/NPA				53	0	9	27	1	12	4	0	18	35	53	53
47	180296	Eagle	4-PA	6					2	3	1	2	4	6	6
48	101320	Hansen	4-PA	1			1						1	1	1
49	110009	Little Thunder	4-PA	1			1						1	1	1
50	110226	Loon	4-PA	1							1	1		1	1
51	180379	White Sand	4-PA	9		2	5		2			3	6	9	9
52	101700	Hanging Kettle	4-PA	4			2		2			3	1	4	4
53	180256	Bass	4-PA	6			6					1	5	6	6
54	110292	Pine	4-PA	2			1			1			2	2	2
TOTAL FOR CATEGORY 4-PA				30	0	2	16	0	6	4	2	10	20	30	30

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PUBLIC  
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#	Lake #	Lake Name	Grid	#pa	Map	Count	Comments
1	110305	Gull	F3	3	Lower Cass	10	
2	110305	Gull	F4	3	Lower Cass	14	
3	110305	Gull	A4	3	Crow Wing	11	
4	180310	Whitefish	A2	1	Crow Wing	1	
5	180315	Big Trout	B2	1	Crow Wing	6	
6	180356	Clamshell	B2	1	Crow Wing	2	
7	180312	Cross	B2	2	Crow Wing	8	
8	180312	Cross	C2	2	Crow Wing	35	
9	180378	Lower Hay	A2	1	Crow Wing	10	
10	180354	Pig	B2	1	Crow Wing	3	
11	180308	Pelican	B3	4	Crow Wing	6	
12	180308	Pelican	B3	4	Crow Wing	8	
13	180308	Pelican	B3	4	Crow Wing	25	
14	180308	Pelican	B3	4	Crow Wing	2	
					total Cat 1	141	
15	110250	Ada	C7	1	Upper Cass	3	
16	180034	Bay	E5	1	Crow Wing	5	
17	10159	Farm Island	A4	1	Aitkin	5	
18	180373	Round	A4	1	Crow Wing	1	
19	180251	Sandbar	C3	1	Crow Wing	0	
20	110304	Sylvan	F4	1	Lower Cass	1	
21	180020	Borden	E6	1	Crow Wing	5	
22	180038	Clearwater	D5	1	Crow Wing	2	
23	110120	Inguadona	D6	1	Upper Cass	2	
24	10204	Round	A4	1	Aitkin	4	
25	110413	Ten Mile	A6	1	Upper Cass	0	
26	180375	Hubert	A4	1	Crow Wing	4	
					total Cat 2	32	
27	180374	Clark	A4	1	Crow Wing	0	
28	180203	Emily	D2	1	Crow Wing	1	
29	110167	Little Boy	D6	1	Upper Cass	3	
30	10117	Nord	B4	1	Aitkin	1	
31	10136	Waukenabo	B2	1	Aitkin	1	
32	10147	Esquagamah	B2	1	Aitkin	4	
33	110296	Moccasin	C5	1	Upper Cass	1	
					total Cat 3	11	
34	180296	Eagle	C1	1	Crow Wing	1	
35	10132	Hansen	B3	1	Aitkin	1	
36	110009	Little Thunder	F6	1	Upper Cass	0	
37	110226	Loon	F3	1	Lower Cass	2	
38	180379	White Sand	A5	1	Crow Wing	2	
39	10170	Hanging Kettle	A4	1	Aitkin	2	
40	180256	Bass	C3	1	Crow Wing	5	
41	110292	Pine	C5	1	Upper Cass	0	
					total Cat 4	13	

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RESORTS  
CAMPGROUNDS

#	Lake #	Lake Name	Business	Count	Comments
1	110218	Upper Gull	Point Narrows Resort	4	
2	110305	Gull	Cragun's Lodge	12	
3	110305	Gull	Madden's Resort	7	
4	110305	Gull	Grand View Lodge	3	
5	110305	Gull	Gull & Love Lk Cpgd	7	
6	110305	Gull	Causeway on Gull	1	
7	110305	Gull	Gull Four Seasons	5	
8	110305	Gull	Quarterdeck Resort	0	
9	110305	Gull	Sandy Beach Resort	2	
10	110305	Gull	Gull Lake Resort	0	
11	110305	Gull	Boberg's Resort	0	
12	180310	Whitefish	Boyd Lodge	2	
13	180310	Whitefish	McGuire's Piney Ridge	3	
14	180310	Whitefish	Driftwood Family Resort	1	
15	180310	Whitefish	Kilworry Resort	4	
16	180355	Bertha	Sunset Knoll Resort	0	
17	180308	Pelican	Breezy Point Resort	14	
18	180308	Pelican	Hart's RV/Motorhome Resort	8	
			total Cat 1	73	
19	10159	Farm Island	Farm Island Lake Resort	2	
20	10159	Farm Island	Ruby's Lakeview Resort	0	
21	110304	Sylvan	Kavanaugh's	0	
22	110413	Ten Mile	Quietwoods Campground	2	
23	110413	Ten Mile	Happiness Resort	3	
24	110413	Ten Mile	Pewick's Kenfield Resort	1	
25	180034	Bay	Rutger's Bay Lake Lodge	7	
26	180034	Bay	Dalois Campgrounds	3	
27	180375	Hubert	Beachland Cottages	0	
			total Cat 2	18	
28	110232	Hattie	Tuck-A-Way Resort	1	
29	110232	Hattie	Rest-In-The-Pines Resort	0	
30	110282	Mann	Wildwood Beach Resort	3	
31	180203	Emily	Lake Emily Resort	0	
32	180203	Emily	Little Pine RV Park	0	
33	180203	Emily	Birch Beach Resort & RV	2	
34	110167	Little Boy	Little Boy Resort	4	
35	180374	Clark	Minnewawa Lodge	1	
			total Cat 3	11	
36	110226	Loon	Rager's Acres	0	
37	110226	Loon	Loon Lake Tavern & Resort	1	
38	180256	Bass	Pine Crest Resort	0	
			total Cat 4	1	

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# RENTAL BOATS RESORTS CAMPGROUNDS

Lake Name	Business	Count
Upper Gull	Point Narrows Resort	11
Gull	Cragun's Lodge	6
Gull	Madden's Resort	4
Gull	Grand View Lodge	10
Gull	Gull & Love Lk Cpgd	1
Gull	Causeway on Gull	8
Gull	Gull Four Seasons	10
Gull	Quarterdeck Resort	4
Gull	Sandy Beach Resort	8
Gull	Gull Lake Resort	5
Gull	Boberg's Resort	0
Whitefish	Boyd Lodge	7
Whitefish	McGuire's Piney Ridge	2
Whitefish	Driftwood Family Resort	4
Whitefish	Kilworry Resort	8
Bertha	Sunset Knoll Resort	10
Pelican	Breezy Point Resort	10
Pelican	Hart's RV/Motorhome Resort	0
	total Cat 1	108
Farm Island	Farm Island Lake Resort	1
Farm Island	Ruby's Lakeview Resort	8
Sylvan	Kavanaugh's	15
Ten Mile	Quietwoods Campground	5
Ten Mile	Happiness Resort	6
Ten Mile	Pewick's Kenfield Resort	3
Bay	Rutger's Bay Lake Lodge	15
Bay	Dalois Campgrounds	2
Hubert	Beachland Cottages	6
	total Cat 2	61
Hattie	Tuck-A-Way Resort	0
Hattie	Rest-In-The-Pines Resort	0
Mann	Wildwood Beach Resort	5
Emily	Lake Emily Resort	4
Emily	Little Pine RV Park	0
Emily	Birch Beach Resort & RV	1
Little Boy	Little Boy Resort	1
Clark	Minnewawa Lodge	3
	total Cat 3	14
Loon	Rager's Acres	1
Loon	Loon Lake Tavern & Resort	2
Bass	Pine Crest Resort	0
	total Cat 4	3

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seq	DOW	Name		total		run-				canoe				total	total wake
#	Number	of Lake	category	boats	cruiser	about	fishing	sailboat	pontoon	kayak	jetski	wake	no wake	boat type	no wake
1	480002	Mille Lacs	1	167	12	80	64	4	4		3	52	115	167	167
2	110305	Gull	1	138	1	65	54	4	10	3	1	46	92	138	138
3	110222	Margaret	1	9		4	3		2			2	7	9	9
4	180399	Nisswa	1	3			2				1		3	3	3
5	180398	Roy	1	9		2	3		2	1	1	6	3	9	9
6	110218	Upper Gull	1	17		8	6		2		1	4	13	17	17
7	180388	Love	1	32		18	14					17	15	32	32
8	110220	Ray	1	8			7		1			1	7	8	8
9	180310	Whitefish	1	64		22	18	5	12	3	4	21	43	64	64
10	180366	Arrowhead	1	5		3	2					2	3	5	5
11	180355	Bertha	1	5			3				2	1	4	5	5
12	180315	Big Trout	1	15		4	4		4		3	5	10	15	15
13	180356	Clamshell	1	4		1	3					3	1	4	4
14	180312	Cross	1	46		14	13	2	9		8	15	31	46	46
15	180271	Daggett	1	2			2					1	1	2	2
16	180269	Island	1	3			3					3		3	3
17	180266	Little Pine	1	7		3			3	1		3	4	7	7
18	180378	Lower Hay	1	8		2	2		1		3	2	6	8	8
19	180354	Pig	1	6			5				1	1	5	6	6
20	180311	Rush	1	33		10	7		6		10	11	22	33	33
21	180308	Pelican	1	47		16	13		10		8	17	30	47	47
TOTAL FOR CATEGORY 1				628	13	252	228	15	66	8	46	213	415	628	628
22	110250	Ada	2-PA	12		6	4			1	1	2	10	12	12
23	180034	Bay	2-PA	38		14	10		6	8		14	24	38	38
24	101590	Farm Island	2-PA	21		7	6	4	4			8	13	21	21
25	180373	Round	2-PA	10		6	2		2			3	7	10	10
26	180251	Sandbar	2-PA	22		4	11		5		2	8	14	22	22
27	110304	Sylvan	2-PA	8		3	3		2			1	7	8	8
28	180020	Borden	2-PA	9		2	2		5			6	3	9	9
29	180038	Clearwater	2-PA	9		6	1				2	4	5	9	9
30	110120	Inguadona	2-PA	7		2	3		2			5	2	7	7
31	110162	Rice	2-PA	1			1						1	1	1
32	102040	Round	2-PA	9			3		4		2	7	2	9	9
33	110413	Ten Mile	2-PA	21		7	7	2	4	1		10	11	21	21
34	180375	Hubert	2-PA	16		7	6		3			5	11	16	16
35	110277	Big Deep	2-NPA	5		3	1		1				5	5	5

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TOTAL FOR CATEGORY 2-PA/NPA				188	0	67	60	6	38	10	7	73	115	188	188
seq	DOW	Name		total		run-				canoe				total	total wake
#	Number	of Lake	category	boats	cruiser	about	fishing	sailboat	pontoon	kayak	jetski	wake	no wake	boat type	no wake
36	180374	Clark	3-PA	3			1		2			1	2	3	3
37	180203	Emily	3-PA	4			3		1			1	3	4	4
38	180185	Mary	3-PA	6			5		1			1	5	6	6
39	110167	Little Boy	3-PA	11			10		1			1	10	11	11
40	101170	Nord	3-PA	2					2				2	2	2
41	101360	Waukenabo	3-PA	2			1		1				2	2	2
42	101470	Esquagamah	3-PA	4			2		2			1	3	4	4
43	110232	Hattie	3-NPA	6			5		1				6	6	6
44	110296	Moccasin	3-PA	2		1			1				2	2	2
45	180227	O'Brien	3-NPA	3			2				1	1	2	3	3
46	110282	Mann	3-NPA	3			2			1			3	3	3
TOTAL FOR CATEGORY 3-PA/NPA				46	0	1	31	0	12	1	1	6	40	46	46
47	180296	Eagle	4-PA	4			3		1			1	3	4	4
48	101320	Hansen	4-PA	0										0	0
49	110009	Little Thunder	4-PA	2			2					2		2	2
50	110226	Loon	4-PA	1		1							1	1	1
51	180379	White Sand	4-PA	0										0	0
52	101700	Hanging Kettle	4-PA	1			1						1	1	1
53	180256	Bass	4-PA	2			2						2	2	2
54	110292	Pine	4-PA	2			2						2	2	2
TOTAL FOR CATEGORY 4-PA				12	0	1	10	0	1	0	0	3	9	12	12

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#	Lake #	Lake Name	Grid	#pa	Map	Count	Comments
1	110305	Gull	F3	3	Lower Cass	23	
2	110305	Gull	F4	3	Lower Cass	11	
3	110305	Gull	A4	3	Crow Wing	18	
4	180310	Whitefish	A2	1	Crow Wing	1	
5	180315	Big Trout	B2	1	Crow Wing	6	
6	180356	Clamshell	B2	1	Crow Wing	0	
7	180312	Cross	B2	2	Crow Wing	5	
8	180312	Cross	C2	2	Crow Wing	23	
9	180378	Lower Hay	A2	1	Crow Wing	8	
10	180354	Pig	B2	1	Crow Wing	0	
11	180308	Pelican	B3	4	Crow Wing	3	
12	180308	Pelican	B3	4	Crow Wing	18	
13	180308	Pelican	B3	4	Crow Wing	0	
14	180308	Pelican	B3	4	Crow Wing	5	
					total Cat 1	121	
15	110250	Ada	C7	1	Upper Cass	0	
16	180034	Bay	E5	1	Crow Wing	9	
17	10159	Farm Island	A4	1	Aitkin	2	
18	180373	Round	A4	1	Crow Wing	0	
19	180251	Sandbar	C3	1	Crow Wing	3	
20	110304	Sylvan	F4	1	Lower CAss	1	
21	180020	Borden	E6	1	Crow Wing	2	
22	180038	Clearwater	D5	1	Crow Wing	3	
23	110120	Inguadona	D6	1	Upper Cass	1	
24	10204	Round	A4	1	Aitkin	2	
25	110413	Ten Mile	A6	1	Upper Cass	1	
26	180375	Hubert	A4	1	Crow Wing	6	
					total Cat 2	30	
27	180374	Clark	A4	1	Crow Wing	0	
28	180203	Emily	D2	1	Crow Wing	1	
29	110167	Little Boy	D6	1	Upper Cass	3	
30	10117	Nord	B4	1	Aitkin	0	
31	10136	Waukenabo	B2	1	Aitkin	0	
32	10147	Esquagamah	B2	1	Aitkin	0	
33	110296	Moccasin	C5	1	Upper Cass	1	
					total Cat 3	5	
34	180296	Eagle	C1	1	Crow Wing	0	
35	10132	Hansen	B3	1	Aitkin	0	
36	110009	Little Thunder	F6	1	Upper Cass	1	
37	110226	Loon	F3	1	Lower Cass	0	
38	180379	White Sand	A5	1	Crow Wing	0	
39	10170	Hanging Kettle	A4	1	Aitkin	0	
40	180256	Bass	C3	1	Crow Wing	1	
41	110292	Pine	C5	1	Upper Cass	1	
					total Cat 4	3	



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RESORTS  
CAMPGROUNDS

#	Lake #	Lake Name	Business	Count	Comments
1	110218	Upper Gull	Point Narrows Resort	2	
2	110305	Gull	Cragun's Lodge	4	
3	110305	Gull	Madden's Resort	5	
4	110305	Gull	Grand View Lodge	1	
5	110305	Gull	Gull & Love Lk Cpgd	3	
6	110305	Gull	Causeway on Gull	1	
7	110305	Gull	Gull Four Seasons	0	
8	110305	Gull	Quarterdeck Resort	0	
9	110305	Gull	Sandy Beach Resort	4	
10	110305	Gull	Gull Lake Resort	1	
11	110305	Gull	Boberg's Resort	1	
12	180310	Whitefish	Boyd Lodge	0	
13	180310	Whitefish	McGuire's Piney Ridge	0	
14	180310	Whitefish	Driftwood Family Resort	2	
15	180310	Whitefish	Kilworry Resort	3	
16	180355	Bertha	Sunset Knoll Resort	1	
17	180308	Pelican	Breezy Point Resort	8	
18	180308	Pelican	Hart's RV/Motorhome Resort	5	
			total Cat 1	41	
19	10159	Farm Island	Farm Island Lake Resort	2	
20	10159	Farm Island	Ruby's Lakeview Resort	0	
21	110304	Sylvan	Kavanaugh's	3	
22	110413	Ten Mile	Quietwoods Campground	0	
23	110413	Ten Mile	Happiness Resort	0	
24	110413	Ten Mile	Pewick's Kenfield Resort	1	
25	180034	Bay	Rutger's Bay Lake Lodge	5	
26	180034	Bay	Dalois Campgrounds	1	
27	180375	Hubert	Beachland Cottages	0	
			total Cat 2	12	
28	110232	Hattie	Tuck-A-Way Resort	2	
29	110232	Hattie	Rest-In-The-Pines Resort	0	
30	110282	Mann	Wildwood Beach Resort	0	
31	180203	Emily	Lake Emily Resort	2	
32	180203	Emily	Little Pine RV Park	1	
33	180203	Emily	Birch Beach Resort & RV	1	
34	110167	Little Boy	Little Boy Resort	5	
35	180374	Clark	Minnewawa Lodge	1	
			total Cat 3	12	
36	110226	Loon	Rager's Acres	1	
37	110226	Loon	Loon Lake Tavern & Resort	1	
38	180256	Bass	Pine Crest Resort	0	
			total Cat 4	2	

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# RENTAL BOATS RESORTS CAMPGROUNDS

Lake Name	Business	Count
Upper Gull	Point Narrows Resort	4
Gull	Cragun's Lodge	4
Gull	Madden's Resort	7
Gull	Grand View Lodge	8
Gull	Gull & Love Lk Cpgd	2
Gull	Causeway on Gull	9
Gull	Gull Four Seasons	6
Gull	Quarterdeck Resort	6
Gull	Sandy Beach Resort	6
Gull	Gull Lake Resort	4
Gull	Boberg's Resort	0
Whitefish	Boyd Lodge	7
Whitefish	McGuire's Piney Ridge	5
Whitefish	Driftwood Family Resort	8
Whitefish	Kilworry Resort	11
Bertha	Sunset Knoll Resort	8
Pelican	Breezy Point Resort	4
Pelican	Hart's RV/Motorhome Resort	0
	total Cat 1	99
Farm Island	Farm Island Lake Resort	3
Farm Island	Ruby's Lakeview Resort	3
Sylvan	Kavanaugh's	5
Ten Mile	Quietwoods Campground	4
Ten Mile	Happiness Resort	4
Ten Mile	Pewick's Kenfield Resort	5
Bay	Rutger's Bay Lake Lodge	8
Bay	Dalois Campgrounds	0
Hubert	Beachland Cottages	5
	total Cat 2	37
Hattie	Tuck-A-Way Resort	0
Hattie	Rest-In-The-Pines Resort	0
Mann	Wildwood Beach Resort	3
Emily	Lake Emily Resort	4
Emily	Little Pine RV Park	0
Emily	Birch Beach Resort & RV	1
Little Boy	Little Boy Resort	2
Clark	Minnewawa Lodge	4
	total Cat 3	14
Loon	Rager's Acres	2
Loon	Loon Lake Tavern & Resort	2
Bass	Pine Crest Resort	0
	total Cat 4	4

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seq #	DOW Number	Name of Lake	category	total boats	cruiser	run- about	fishing	sailboat	pontoon	canoe kayak	jetski	wake	no wake	total boat type	total wake no wake
1	480002	Mille Lacs	1	42	3	12	24	1	2			13	29	42	42
2	110305	Gull	1	28		10	13		3		2	9	19	28	28
3	110222	Margaret	1	4		1	2		1			2	2	4	4
4	180399	Nisswa	1	1			1					1		1	1
5	180398	Roy	1	2		1	1						2	2	2
6	110218	Upper Gull	1	2		1				1			2	2	2
7	180388	Love	1	0										0	0
8	110220	Ray	1	1			1						1	1	1
9	180310	Whitefish	1	16		5	7		3		1	4	12	16	16
10	180366	Arrowhead	1	0										0	0
11	180355	Bertha	1	1			1						1	1	1
12	180315	Big Trout	1	8			5	2		1			8	8	8
13	180356	Clamshell	1	0										0	0
14	180312	Cross	1	9		2		2	3	1	1	3	6	9	9
15	180271	Daggett	1	1			1						1	1	1
16	180269	Island	1	0										0	0
17	180266	Little Pine	1	2			2						2	2	2
18	180378	Lower Hay	1	0										0	0
19	180354	Pig	1	1			1						1	1	1
20	180311	Rush	1	7		3	2		1		1	3	4	7	7
21	180308	Pelican	1	17		4	9		3		1	5	12	17	17
TOTAL FOR CATEGORY 1				142	3	39	70	5	16	3	6	40	102	142	142
22	110250	Ada	2-PA	3			3						3	3	3
23	180034	Bay	2-PA	8		2	4		2			4	4	8	8
24	101590	Farm Island	2-PA	2			1		1				2	2	2
25	180373	Round	2-PA	6			4		2			2	4	6	6
26	180251	Sandbar	2-PA	4			4						4	4	4
27	110304	Sylvan	2-PA	1		1							1	1	1
28	180020	Borden	2-PA	0										0	0
29	180038	Clearwater	2-PA	4			4						4	4	4
30	110120	Inguadona	2-PA	4			3		1			2	2	4	4
31	110162	Rice	2-PA	0										0	0
32	102040	Round	2-PA	3			1		2				3	3	3
33	110413	Ten Mile	2-PA	9		3	4		2			3	6	9	9
34	180375	Hubert	2-PA	2			2					1	1	2	2
35	110277	Big Deep	2-NPA	0										0	0

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TOTAL FOR CATEGORY 2-PA/NPA				46	0	6	30	0	10	0	0	12	34	46	46
seq	DOW	Name		total		run-				canoe				total	total wake
#	Number	of Lake	category	boats	cruiser	about	fishing	sailboat	pontoon	kayak	jetski	wake	no wake	boat type	no wake
36	180374	Clark	3-PA	0										0	0
37	180203	Emily	3-PA	4			3		1			1	3	4	4
38	180185	Mary	3-PA	2			2					2		2	2
39	110167	Little Boy	3-PA	1			1						1	1	1
40	101170	Nord	3-PA	2			1			1			2	2	2
41	101360	Waukenabo	3-PA	0										0	0
42	101470	Esquagamah	3-PA	0										0	0
43	110232	Hattie	3-NPA	1			1						1	1	1
44	110296	Moccasin	3-PA	0										0	0
45	180227	O'Brien	3-NPA	1					1				1	1	1
46	110282	Mann	3-NPA	1			1					1		1	1
TOTAL FOR CATEGORY 3-PA/NPA				12	0	0	9	0	2	1	0	4	8	12	12
47	180296	Eagle	4-PA	1					1				1	1	1
48	101320	Hansen	4-PA	0										0	0
49	110009	Little Thunder	4-PA	0										0	0
50	110226	Loon	4-PA	0										0	0
51	180379	White Sand	4-PA	1							1	1		1	1
52	101700	Hanging Kettle	4-PA	1			1						1	1	1
53	180256	Bass	4-PA	2			2						2	2	2
54	110292	Pine	4-PA	0										0	0
TOTAL FOR CATEGORY 4-PA				5	0	0	3	0	1	0	1	1	4	5	5

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#	Lake #	Lake Name	Grid	#pa	Map	Count	Comments
1	110305	Gull	F3	3	Lower Cass	3	
2	110305	Gull	F4	3	Lower Cass	0	
3	110305	Gull	A4	3	Crow Wing	3	
4	180310	Whitefish	A2	1	Crow Wing	3	
5	180315	Big Trout	B2	1	Crow Wing	2	
6	180356	Clamshell	B2	1	Crow Wing	0	
7	180312	Cross	B2	2	Crow Wing	2	
8	180312	Cross	C2	2	Crow Wing	5	
9	180378	Lower Hay	A2	1	Crow Wing	0	
10	180354	Pig	B2	1	Crow Wing	1	
11	180308	Pelican	B3	4	Crow Wing	1	
12	180308	Pelican	B3	4	Crow Wing	15	
13	180308	Pelican	B3	4	Crow Wing	1	
14	180308	Pelican	B3	4	Crow Wing	0	
					total Cat 1	36	
15	110250	Ada	C7	1	Upper Cass	0	
16	180034	Bay	E5	1	Crow Wing	0	
17	10159	Farm Island	A4	1	Aitkin	1	
18	180373	Round	A4	1	Crow Wing	0	
19	180251	Sandbar	C3	1	Crow Wing	3	
20	110304	Sylvan	F4	1	Lower Cass	0	
21	180020	Borden	E6	1	Crow Wing	0	
22	180038	Clearwater	D5	1	Crow Wing	2	
23	110120	Inguadona	D6	1	Upper Cass	0	
24	10204	Round	A4	1	Aitkin	0	
25	110413	Ten Mile	A6	1	Upper Cass	1	
26	180375	Hubert	A4	1	Crow Wing	1	
					total Cat 2	8	
27	180374	Clark	A4	1	Crow Wing	0	
28	180203	Emily	D2	1	Crow Wing	3	
29	110167	Little Boy	D6	1	Upper Cass	0	
30	10117	Nord	B4	1	Aitkin	1	
31	10136	Waukenabo	B2	1	Aitkin	0	
32	10147	Esquagamah	B2	1	Aitkin	0	
33	110296	Moccasin	C5	1	Upper Cass	0	
					total Cat 3	4	
34	180296	Eagle	C1	1	Crow Wing	0	
35	10132	Hansen	B3	1	Aitkin	0	
36	110009	Little Thunder	F6	1	Upper Cass	0	
37	110226	Loon	F3	1	Lower Cass	0	
38	180379	White Sand	A5	1	Crow Wing	0	
39	10170	Hanging Kettle	A4	1	Aitkin	1	
40	180256	Bass	C3	1	Crow Wing	2	
41	110292	Pine	C5	1	Upper Cass	0	
					total Cat 4	3	

Date: September 2, 1998

RESORTS  
CAMPGROUNDS

#	Lake #	Lake Name	Business	Count	Comments
1	110218	Upper Gull	Point Narrows Resort	1	
2	110305	Gull	Cragun's Lodge	2	
3	110305	Gull	Madden's Resort	2	
4	110305	Gull	Grand View Lodge	1	
5	110305	Gull	Gull & Love Lk Cpgd	0	
6	110305	Gull	Causeway on Gull	0	
7	110305	Gull	Gull Four Seasons	1	
8	110305	Gull	Quarterdeck Resort	3	
9	110305	Gull	Sandy Beach Resort	1	
10	110305	Gull	Gull Lake Resort	0	
11	110305	Gull	Boberg's Resort	0	
12	180310	Whitefish	Boyd Lodge	2	
13	180310	Whitefish	McGuire's Piney Ridge	0	
14	180310	Whitefish	Driftwood Family Resort	0	
15	180310	Whitefish	Kilworry Resort	0	
16	180355	Bertha	Sunset Knoll Resort	1	
17	180308	Pelican	Breezy Point Resort	0	
18	180308	Pelican	Hart's RV/Motorhome Resort	2	
			total Cat 1	16	
19	10159	Farm Island	Farm Island Lake Resort	1	
20	10159	Farm Island	Ruby's Lakeview Resort	0	
21	110304	Sylvan	Kavanaugh's	2	
22	110413	Ten Mile	Quietwoods Campground	0	
23	110413	Ten Mile	Happiness Resort	0	
24	110413	Ten Mile	Pewick's Kenfield Resort	1	
25	180034	Bay	Rutger's Bay Lake Lodge	2	
26	180034	Bay	Dalois Campgrounds	0	
27	180375	Hubert	Beachland Cottages	0	
			total Cat 2	6	
28	110232	Hattie	Tuck-A-Way Resort	2	
29	110232	Hattie	Rest-In-The-Pines Resort	1	
30	110282	Mann	Wildwood Beach Resort	0	
31	180203	Emily	Lake Emily Resort	0	
32	180203	Emily	Little Pine RV Park	0	
33	180203	Emily	Birch Beach Resort & RV	0	
34	110167	Little Boy	Little Boy Resort	1	
35	180374	Clark	Minnewawa Lodge	1	
			total Cat 3	5	
36	110226	Loon	Rager's Acres	0	
37	110226	Loon	Loon Lake Tavern & Resort	0	
38	180256	Bass	Pine Crest Resort	1	
			total Cat 4	1	

September 2, 1999

# RENTAL BOATS RESORTS CAMPGROUNDS

Lake Name	Business	Count
Upper Gull	Point Narrows Resort	1
Gull	Cragun's Lodge	2
Gull	Madden's Resort	2
Gull	Grand View Lodge	2
Gull	Gull & Love Lk Cpgd	0
Gull	Causeway on Gull	6
Gull	Gull Four Seasons	4
Gull	Quarterdeck Resort	3
Gull	Sandy Beach Resort	6
Gull	Gull Lake Resort	2
Gull	Boberg's Resort	0
Whitefish	Boyd Lodge	1
Whitefish	McGuire's Piney Ridge	0
Whitefish	Driftwood Family Resort	2
Whitefish	Kilworry Resort	3
Bertha	Sunset Knoll Resort	2
Pelican	Breezy Point Resort	6
Pelican	Hart's RV/Motorhome Resort	0
	total Cat 1	42
Farm Island	Farm Island Lake Resort	1
Farm Island	Ruby's Lakeview Resort	4
Sylvan	Kavanaugh's	4
Ten Mile	Quietwoods Campground	2
Ten Mile	Happiness Resort	3
Ten Mile	Pewick's Kenfield Resort	1
Bay	Rutger's Bay Lake Lodge	6
Bay	Dalois Campgrounds	0
Hubert	Beachland Cottages	0
	total Cat 2	21
Hattie	Tuck-A-Way Resort	0
Hattie	Rest-In-The-Pines Resort	0
Mann	Wildwood Beach Resort	1
Emily	Lake Emily Resort	1
Emily	Little Pine RV Park	0
Emily	Birch Beach Resort & RV	2
Little Boy	Little Boy Resort	0
Clark	Minnewawa Lodge	1
	total Cat 3	5
Loon	Rager's Acres	1
Loon	Loon Lake Tavern & Resort	0
Bass	Pine Crest Resort	0
	total Cat 4	1

1998 NORTH CENTRAL BOATING STUDY  
MINNESOTA DEPARTMENT OF NATURAL RESOURCES  
Public Access Boaters

Dear Boater,

Every few years we—the Minnesota DNR—survey boaters on recreational boating issues, such as boating opportunities, boating safety and exotic species. The DNR makes many decisions that affect these issues. When making these decisions, we want to be sure we understand what you think.

Please complete this survey today, and mail it back to us in the postage-paid envelope. **THE SURVEY WILL ONLY TAKE ABOUT 15 MINUTES TO COMPLETE.**

If you have any questions about this survey, please call Forrest Boe at the DNR in Brainerd, at 218-828-2557.

Thank you for your help.

---

**PLEASE ANSWER QUESTIONS FOR THE BOATING TRIP ON THE LAKE WHERE YOU RECEIVED THIS SURVEY**

1. How many years have you been boating on this lake? \_\_\_\_ years
2. How far is your permanent home from this lake? \_\_\_\_ miles
  - 2a. What is the zip code of your permanent home? \_\_\_\_\_
3. Do you have a home or residence on this lake? (CHECK ONE) \_\_\_\_ yes \_\_\_\_ no
4. Where did you launch your boat on this trip? (CHECK ONE)

____ here at this public access	____ another public access
____ private access or marina	____ resort/private campground
____ other (please specify) _____	
5. Where did you park? (CHECK ONE)

____ in lot at this public access	____ street
____ friend's home	____ another lot
____ at my home	____ other (please specify) _____
6. Did you yourself operate the boat for any of the time on this trip? (CHECK ONE)  
\_\_\_\_ yes \_\_\_\_ no
7. How many people, including yourself, were in your boat on this trip? \_\_\_\_ people
8. What time did you leave from shore? \_\_\_\_ AM/PM
9. What time did you return to shore? \_\_\_\_ AM/PM



10. How many of the hours on this trip were spent on shore or tied up at a dock? \_\_\_\_ hours
11. What was your group's primary activity on the lake on this trip? (CHECK ONE)  
\_\_\_\_ fishing      \_\_\_\_ sailing      \_\_\_\_ boat ride      \_\_\_\_ transportation to/from  
\_\_\_\_ canoeing      \_\_\_\_ jet skiing      \_\_\_\_ water skiing      \_\_\_\_ other (please specify) \_\_\_\_
12. While you were boating on this trip, did you pull your boat up on the beach? (CHECK ONE)  
\_\_\_\_ yes      \_\_\_\_ no
13. While you were boating on this trip, did you anchor or tie up with other boats into a raft?  
(CHECK ONE)      \_\_\_\_ yes      \_\_\_\_ no
14. Are there sufficient opportunities on the lake to: (CHECK THE APPROPRIATE RESPONSE FOR EACH QUESTION)
- |   |          |         |                          |
|---|----------|---------|--------------------------|
| a. Beach your boat:   | ____ yes | ____ no | ____ don't know/not sure |
| b. Anchor or tie up with other boats into a raft:             | ____ yes | ____ no | ____ don't know/not sure |
| c. Use picnic areas or toilets at a public lakeshore wayside: | ____ yes | ____ no | ____ don't know/not sure |
| d. Use restaurants:   | ____ yes | ____ no | ____ don't know/not sure |
| e. Purchase gasoline:   | ____ yes | ____ no | ____ don't know/not sure |
15. What type of boat did you use on this trip? (CHECK ONE)  
\_\_\_\_ Cruiser (has cabin or superstructure)      \_\_\_\_ Jetski      \_\_\_\_ Canoe/Kayak  
\_\_\_\_ Runabout (has windshield)      \_\_\_\_ Pontoon      \_\_\_\_ Sailboat  
\_\_\_\_ Fishing (no windshield)      \_\_\_\_ Other (please specify) \_\_\_\_\_
16. What is the length of that boat? \_\_\_\_ feet
17. What type of motor does that boat have? (CHECK ONE TYPE, FILL IN HORSEPOWER FOR GAS MOTOR) TYPE: \_\_\_\_ gas (\_\_\_\_ horsepower)      \_\_\_\_ electric      \_\_\_\_ no motor      \_\_\_\_ don't know
18. What type of second motor (if applicable) does that boat have? (CHECK ONE TYPE, FILL IN HORSEPOWER FOR GAS MOTOR)  
TYPE: \_\_\_\_ gas (\_\_\_\_ horsepower)      \_\_\_\_ electric      \_\_\_\_ no motor      \_\_\_\_ don't know
19. Which of the following do you have on your boat? (CHECK ALL THAT APPLY)  
\_\_\_\_ fire extinguisher      \_\_\_\_ horn      \_\_\_\_ lights  
\_\_\_\_ visual signal (flag, flare gun)      \_\_\_\_ none of these items      \_\_\_\_ don't know
20. Which of the following beverages did you have with you on the boat on this trip? (CHECK ALL THAT APPLY)  
\_\_\_\_ soft drinks      \_\_\_\_ beer      \_\_\_\_ no beverages  
\_\_\_\_ coffee/tea/water      \_\_\_\_ wine      \_\_\_\_ refuse to answer  
\_\_\_\_ other nonalcoholic      \_\_\_\_ other alcoholic      \_\_\_\_ don't know/not sure
21. Overall, how satisfied or dissatisfied were you with your boating experience on this trip? (CHECK ONE) \_\_\_\_ very satisfied      \_\_\_\_ satisfied      \_\_\_\_ dissatisfied      \_\_\_\_ very dissatisfied      \_\_\_\_ don't know/not sure
22. What was the main reason(s) you were so satisfied or dissatisfied? (please describe)  
\_\_\_\_\_

23. While you were on the lake on this trip, did you see an enforcement officer? (CHECK ONE)  
☐ yes    ☐ no    ☐ don't know/not sure
24. Were you checked by an enforcement officer on this trip? (CHECK ONE)  
☐ yes    ☐ no
25. On this trip, did you travel through any parts of the lake where you thought there were too many boats? (CHECK ONE)    ☐ yes    ☐ no    ☐ don't know/not sure
26. How does the number of boats you encountered on this trip compare to the number of boats you have seen on other trips on this same part of the lake? (CHECK ONE)  
☐ substantially fewer    ☐ slightly fewer    ☐ about the same  
☐ slightly more    ☐ substantially more  
☐ don't know/not sure    ☐ haven't boated here before this trip
27. From a safety standpoint, how did you feel about the number of boats on the lake on this trip? (CHECK ONE)  
☐ few boats here    ☐ about right    ☐ crowded    ☐ far too crowded    ☐ don't know/not sure
28. Again, from a safety standpoint, how do you feel about the number of boats that are "usually" on this lake? (CHECK ONE)  
☐ few boats here    ☐ about right    ☐ crowded    ☐ far too crowded    ☐ don't know/not sure
29. Would you boat again if you knew there were going to be about the same number of boats as on this trip? (CHECK ONE)  
☐ yes    ☐ no    ☐ don't know/not sure
30. Based on your experience on this trip, how much of a problem is each of the following on this lake? (MARK ONE OF THE BOXES FOR EACH OF THE NUMBERED ITEMS)

ITEM	not a problem	slight problem	moderate problem	serious problem	very serious problem	don't know
1. careless or inconsiderate operation of boats						
2. boat operators who have been drinking too much						
3. the amount of noise from boats on the lake						
4. near miss or collision						
5. high wakes						
6. use of personal watercraft (jet skis)						
7. large boats (boats over 24 feet)						
8. boats operating too fast, too close to shore/docks						
9. boats not yielding the right-of-way						
10. excessive speed in channels and crowded areas						
11. excessive speed in open water						

**NOW WE HAVE SOME QUESTIONS ABOUT BOATING SAFETY**

31. What special boating restrictions are there for this lake? (CHECK ALL THAT APPLY)
- |  |  |
|--|--|
| <input type="checkbox"/> none  | <input type="checkbox"/> horsepower restrictions         |
| <input type="checkbox"/> boat type and size restrictions   | <input type="checkbox"/> speed restrictions/quiet waters |
| <input type="checkbox"/> time restrictions   | <input type="checkbox"/> area of lake restrictions       |
| <input type="checkbox"/> don't know/not sure   | <input type="checkbox"/> other (please describe) _____   |
| <input type="checkbox"/> requirement to remove Eurasian milfoil & zebra mussels from boat & trailer<br>before leaving water body |  |
32. Overall, how do these restrictions affect your enjoyment of the lake? (CHECK ONE)
- ☐ add to enjoyment    ☐ detract from enjoyment    ☐ neutral with respect to enjoyment
33. Overall, do think special boating restrictions on this lake are: (CHECK ONE)
- ☐ too restrictive    ☐ about right    ☐ not restrictive enough    ☐ don't know
34. What special boating restrictions are needed for this lake? (CHECK ALL THAT ARE NEEDED)
- |  |  |
|--|--|
| <input type="checkbox"/> none  | <input type="checkbox"/> horsepower restrictions         |
| <input type="checkbox"/> boat type and size restrictions   | <input type="checkbox"/> speed restrictions/quiet waters |
| <input type="checkbox"/> time restrictions   | <input type="checkbox"/> area of lake restrictions       |
| <input type="checkbox"/> don't know/not sure   | <input type="checkbox"/> other (please describe)         |
| <input type="checkbox"/> special restrictions for personal watercraft (jet skis)   |  |
| <input type="checkbox"/> requirement to remove Eurasian milfoil & zebra mussels from boat & trailer<br>before leaving water body |  |
35. Have you taken a formal course in boating safety? (CHECK ONE)
- ☐ yes    ☐ no    ☐ don't know/not sure
36. Should all boat operators (powered & unpowered) be required to complete a boating safety course? (CHECK ONE) ☐ yes    ☐ no    ☐ don't know/not sure
37. Should all motorboat operators be required to obtain an operator's license? (CHECK ONE)
- ☐ yes    ☐ no    ☐ don't know/not sure

**NOW A FEW QUESTIONS ABOUT THIS PUBLIC BOAT ACCESS**

38. Have you ever used this access before? (CHECK ONE)
- ☐ yes    ☐ no    ☐ don't know/not sure
39. Have you ever tried to use free public access on this lake and found the access parking lot full? (CHECK ONE)
- ☐ yes    ☐ no    ☐ don't know/not sure
- 39a. (IF YES) How many times did you find the lot full in the past 12 months? \_\_\_\_\_ times
- 39b. (IF YES) What did you do when you found the parking lot full? (CHECK ALL THAT APPLY)
- |   |   |
|---|---|
| <input type="checkbox"/> parked on the road   | <input type="checkbox"/> went to another access on this lake  |
| <input type="checkbox"/> went to another lake | <input type="checkbox"/> didn't boat that day <input type="checkbox"/> other (please specify) _____ |

40. How would you rate this access for launching and landing a boat? (CHECK ONE)  
☐ excellent ☐ good ☐ fair ☐ poor ☐ very poor ☐ don't know/not sure

41. Did you have any particular problems using this access on this boating trip? (CHECK ONE)  
☐ yes ☐ no ☐ don't know .

41a. (IF YES) What was the problem(s)? (CHECK ALL THAT APPLY)

- ☐ not enough parking spaces
- ☐ not enough maneuvering room on land near ramp for launch/landing
- ☐ water too shallow
- ☐ not enough maneuvering room on water near ramp for launch/landing
- ☐ no dock
- ☐ ramp blocked by parked cars, campers etc.
- ☐ inadequate directional signs to access
- ☐ safety of entry to access area from road or highway
- ☐ access site in disrepair
- ☐ insufficient number of launch lanes/ramps
- ☐ ramp slope not steep enough
- ☐ difficult to launch/land because of wind or waves
- ☐ couldn't find the access from the lake after dark
- ☐ other (please specify) \_\_\_\_\_

42. Which of the following improvements do you feel are needed at this launch site? (CHECK ALL THAT ARE NEEDED)

- |   |   |
|---|---|
| <input type="checkbox"/> better directional signs to access                 | <input type="checkbox"/> trash pickup                       |
| <input type="checkbox"/> better informational signs at access               | <input type="checkbox"/> toilets                            |
| <input type="checkbox"/> a dock to ease launching                           | <input type="checkbox"/> toilet maintenance (if applicable) |
| <input type="checkbox"/> better lighting of access/parking area             | <input type="checkbox"/> more launch lanes/ramps            |
| <input type="checkbox"/> beacon light visible from lake                     | <input type="checkbox"/> better enforcement                 |
| <input type="checkbox"/> more parking spaces in lot                         | <input type="checkbox"/> trash containers                   |
| <input type="checkbox"/> protection from wind/waves in front of launch ramp | <input type="checkbox"/> other (please specify) _____       |

## NOW SOME GENERAL QUESTIONS

43. Do you think an additional (or initial) public boat access is needed on this lake? (CHECK ONE)  
☐ yes ☐ no ☐ don't know

43a. (IF YES) Why is it needed? (CHECK ALL THAT APPLY)

- ☐ there is no access now—is needed for my use
- ☐ present access is too congested
- ☐ present access is on wrong part of the lake
- ☐ present access is too shallow
- ☐ present access is too far off main roads
- ☐ present access it too difficult to launch/land a boat in certain weather
- ☐ other (please specify) \_\_\_\_\_

44. How many other lakes do you boat on within about 50 miles of this lake? \_\_\_\_ lakes

45. How do you gain access to these other lakes? (CHECK ALL THAT APPLY)

- ☐ free public access launch site      ☐ friend or relative's home/cabin  
☐ my home or cabin      ☐ resort, marina or private launch site  
☐ other (please specify) \_\_\_\_\_

46. What types of information should be available at public boat accesses to enhance your boating experience? (CHECK ALL THAT APPLY)

- ☐ depth map of lake      ☐ emergency information  
☐ boating restrictions for lake      ☐ description of natural history of lake  
☐ boating hazards map of lake      ☐ information on where to buy boat gas  
☐ fishing information for lake      ☐ I don't use public boat accesses  
☐ other (please specify) \_\_\_\_\_

47. How effective would each of the following be in getting you to take steps to prevent further spread of exotic species, such as Eurasian watermilfoil and zebra mussels? (MARK ONE OF THE BOXES FOR EACH OF THE NUMBERED ITEMS)

ITEM	very effective	moderately effective	slightly effective	not effective	don't know
1. laws that make it illegal to transport exotic species					
2. road checks to enforce the laws					
3. signs at boat landings					
4. inspection-education programs at boat launches					
5. information included in fishing and boating regulations and pamphlets					

### JUST A FEW FINAL QUESTIONS

48. What type of radio station do you primarily listen to? (CHECK ONE)

- ☐ classical      ☐ country      ☐ rock & roll  
☐ easy listening/lite      ☐ jazz      ☐ talk  
☐ sports      ☐ other (please specify) \_\_\_\_\_

49. Do you have a home computer connected to an on-line service or the Internet? (CHECK ONE)

- ☐ yes      ☐ no      ☐ don't know/not sure

50. Do you have a home computer with a CD-ROM drive? (CHECK ONE)

- ☐ yes      ☐ no      ☐ don't know/not sure

51. Which category best describes your total household income before taxes last year? (CHECK ONE)

- ☐ less than \$20,000      ☐ \$40,000-\$49,999      ☐ \$100,000 or more  
☐ \$20,000-\$29,999      ☐ \$50,000-\$74,999      ☐ refuse to answer  
☐ \$30,000-\$39,999      ☐ \$75,000-\$99,999      ☐ don't know/not sure

**THAT'S THE END OF THE QUESTIONS. THANK YOU VERY MUCH.**

1998 NORTH CENTRAL BOATING STUDY  
MINNESOTA DEPARTMENT OF NATURAL RESOURCES  
Resort & Campground Boaters

Dear Boater,

Every few years we—the Minnesota DNR—survey boaters on recreational boating issues, such as boating opportunities, boating safety and exotic species. The DNR makes many decisions that affect these issues. When making these decisions, we want to be sure we understand what you think.

Please complete this survey today, and mail it back to us in the postage-paid envelope. **THE SURVEY WILL ONLY TAKE ABOUT 15 MINUTES TO COMPLETE.**

If you have any questions about this survey, please call Forrest Boe at the DNR in Brainerd at 218-828-2557.

Thank you for your help.

---

**PLEASE ANSWER QUESTIONS FOR THE BOATING TRIP ON THE LAKE WHERE YOU RECEIVED THIS SURVEY**

1. How many years have you been boating on this lake? \_\_\_\_ years
2. How far is your permanent home from this lake? \_\_\_\_ miles
  - 2a. What is the zip code of your permanent home? \_\_\_\_\_
3. Do you have a home or residence on this lake? (CHECK ONE) \_\_\_\_ yes \_\_\_\_ no
4. Did you yourself operate the boat for any of the time on this trip? (CHECK ONE)  
\_\_\_\_ yes \_\_\_\_ no
5. How many people, including yourself, were in your boat on this trip? \_\_\_\_ people
6. What time did you leave from shore? \_\_\_\_ AM/PM
7. What time did you return to shore? \_\_\_\_ AM/PM
8. How many of the hours on this trip were spent on shore or tied up at a dock? \_\_\_\_ hours
9. What was your group's primary activity on the lake on this trip? (CHECK ONE)  
\_\_\_\_ fishing      \_\_\_\_ sailing      \_\_\_\_ boat ride      \_\_\_\_ transportation to/from  
\_\_\_\_ canoeing      \_\_\_\_ jet skiing      \_\_\_\_ water skiing      \_\_\_\_ other (please specify) \_\_\_\_
10. While you were boating on this trip, did you pull your boat up on the beach? (CHECK ONE)  
\_\_\_\_ yes \_\_\_\_ no

11. While you were boating on this trip, did you anchor or tie up with other boats into a raft?  
(CHECK ONE) ☐ yes ☐ no
12. Are there sufficient opportunities on the lake to: (CHECK THE APPROPRIATE RESPONSE FOR EACH QUESTION)
- |   |                              |                             |  |
|---|------------------------------|-----------------------------|--|
| a. Beach your boat:   | <input type="checkbox"/> yes | <input type="checkbox"/> no | <input type="checkbox"/> don't know/not sure |
| b. Anchor or tie up with other boats into a raft:             | <input type="checkbox"/> yes | <input type="checkbox"/> no | <input type="checkbox"/> don't know/not sure |
| c. Use picnic areas or toilets at a public lakeshore wayside: | <input type="checkbox"/> yes | <input type="checkbox"/> no | <input type="checkbox"/> don't know/not sure |
| d. Use restaurants:   | <input type="checkbox"/> yes | <input type="checkbox"/> no | <input type="checkbox"/> don't know/not sure |
| e. Purchase gasoline:   | <input type="checkbox"/> yes | <input type="checkbox"/> no | <input type="checkbox"/> don't know/not sure |
13. What type of boat did you use on this trip? (CHECK ONE)
- |  |   |                                      |
|--|---|--------------------------------------|
| <input type="checkbox"/> Cruiser (has cabin or superstructure) | <input type="checkbox"/> Jetski                       | <input type="checkbox"/> Canoe/Kayak |
| <input type="checkbox"/> Runabout (has windshield)             | <input type="checkbox"/> Pontoon                      | <input type="checkbox"/> Sailboat    |
| <input type="checkbox"/> Fishing (no windshield)               | <input type="checkbox"/> Other (please specify) _____ |                                      |
14. What is the length of that boat?  feet
15. What type of motor does that boat have? (CHECK ONE TYPE, FILL IN HORSEPOWER FOR GAS MOTOR) TYPE: ☐ gas ( horsepower) ☐ electric ☐ no motor ☐ don't know
16. What type of second motor (if applicable) does that boat have? (CHECK ONE TYPE, FILL IN HORSEPOWER FOR GAS MOTOR)
- TYPE: ☐ gas ( horsepower) ☐ electric ☐ no motor ☐ don't know
17. Which of the following do you have on your boat? (CHECK ALL THAT APPLY)
- |  |  |                                     |
|--|--|-------------------------------------|
| <input type="checkbox"/> fire extinguisher               | <input type="checkbox"/> horn                | <input type="checkbox"/> lights     |
| <input type="checkbox"/> visual signal (flag, flare gun) | <input type="checkbox"/> none of these items | <input type="checkbox"/> don't know |
18. Which of the following beverages did you have with you on the boat on this trip? (CHECK ALL THAT APPLY)
- |   |  |  |
|---|--|--|
| <input type="checkbox"/> soft drinks        | <input type="checkbox"/> beer            | <input type="checkbox"/> no beverages        |
| <input type="checkbox"/> coffee/tea/water   | <input type="checkbox"/> wine            | <input type="checkbox"/> refuse to answer    |
| <input type="checkbox"/> other nonalcoholic | <input type="checkbox"/> other alcoholic | <input type="checkbox"/> don't know/not sure |
19. Overall, how satisfied or dissatisfied were you with your boating experience on this trip? (CHECK ONE) ☐ very satisfied ☐ satisfied ☐ dissatisfied ☐ very dissatisfied ☐ don't know/not sure
20. What was the main reason(s) you were so satisfied or dissatisfied? (please describe)
- \_\_\_\_\_
21. While you were on the lake on this trip, did you see an enforcement officer? (CHECK ONE)
- ☐ yes ☐ no ☐ don't know/not sure
22. Were you checked by an enforcement officer on this trip? (CHECK ONE)
- ☐ yes ☐ no

23. On this trip, did you travel through any parts of the lake where you thought there were too many boats? (CHECK ONE)    ☐ yes    ☐ no    ☐ don't know/not sure
24. How does the number of boats you encountered on this trip compare to the number of boats you have seen on other trips on this same part of the lake? (CHECK ONE)  
☐ substantially fewer    ☐ slightly fewer    ☐ about the same  
☐ slightly more    ☐ substantially more  
☐ don't know/not sure    ☐ haven't boated here before this trip
25. From a safety standpoint, how did you feel about the number of boats on the lake on this trip? (CHECK ONE)  
☐ few boats here    ☐ about right    ☐ crowded    ☐ far too crowded    ☐ don't know/not sure
26. Again, from a safety standpoint, how do you feel about the number of boats that are "usually" on this lake? (CHECK ONE)  
☐ few boats here    ☐ about right    ☐ crowded    ☐ far too crowded    ☐ don't know/not sure
27. Would you boat again if you knew there were going to be about the same number of boats as on this trip? (CHECK ONE)  
☐ yes    ☐ no    ☐ don't know/not sure
28. Based on your experience on this trip, how much of a problem is each of the following on this lake? (MARK ONE OF THE BOXES FOR EACH OF THE NUMBERED ITEMS)

ITEM	not a problem	slight problem	moderate problem	serious problem	very serious problem	don't know
1. careless or inconsiderate operation of boats						
2. boat operators who have been drinking too much						
3. the amount of noise from boats on the lake						
4. near miss or collision						
5. high wakes						
6. use of personal watercraft (jet skis)						
7. large boats (boats over 24 feet)						
8. boats operating too fast, too close to shore/docks						
9. boats not yielding the right-of-way						
10. excessive speed in channels and crowded areas						
11. excessive speed in open water						

### NOW WE HAVE SOME QUESTIONS ABOUT BOATING SAFETY .

29. What special boating restrictions are there for this lake? (CHECK ALL THAT APPLY)
- ☐ none    ☐ horsepower restrictions  
☐ boat type and size restrictions    ☐ speed restrictions/quiet waters  
☐ time restrictions    ☐ area of lake restrictions  
☐ don't know/not sure    ☐ other (please describe) \_\_\_\_\_  
☐ requirement to remove Eurasian milfoil & zebra mussels from boat & trailer before leaving water body



30. Overall, how do these restrictions affect your enjoyment of the lake? (CHECK ONE)  
☐ add to enjoyment ☐ detract from enjoyment ☐ neutral with respect to enjoyment
31. Overall, do think special boating restrictions on this lake are: (CHECK ONE)  
☐ too restrictive ☐ about right ☐ not restrictive enough ☐ don't know
32. What special boating restrictions are needed for this lake? (CHECK ALL THAT ARE NEEDED)  
☐ none ☐ horsepower restrictions  
☐ boat type and size restrictions ☐ speed restrictions/quiet waters  
☐ time restrictions ☐ area of lake restrictions  
☐ don't know/not sure ☐ other (please describe)  
☐ special restrictions for personal watercraft (jet skis)  
☐ requirement to remove Eurasian milfoil & zebra mussels from boat & trailer before leaving water body
33. Have you taken a formal course in boating safety? (CHECK ONE)  
☐ yes ☐ no ☐ don't know/not sure
34. Should all boat operators (powered & unpowered) be required to complete a boating safety course? (CHECK ONE) ☐ yes ☐ no ☐ don't know/not sure
35. Should all motorboat operators be required to obtain an operator's license? (CHECK ONE)  
☐ yes ☐ no ☐ don't know/not sure

### NOW SOME GENERAL QUESTIONS

36. Do you think an additional (or initial) public boat access is needed on this lake? (CHECK ONE)  
☐ yes ☐ no ☐ don't know
- 36a. (IF YES) Why is it needed? (CHECK ALL THAT APPLY)  
☐ there is no access now—is needed for my use  
☐ present access is too congested  
☐ present access is on wrong part of the lake  
☐ present access is too shallow  
☐ present access is too far off main roads  
☐ present access it too difficult to launch/land a boat in certain weather  
☐ other (please specify) \_\_\_\_\_
37. How many other lakes do you boat on within about 50 miles of this lake?  lakes
38. How do you gain access to these other lakes? (CHECK ALL THAT APPLY)  
☐ free public access launch site ☐ friend or relative's home/cabin  
☐ my home or cabin ☐ resort, marina or private launch site  
☐ other (please specify) \_\_\_\_\_

39. What types of information should be available at public boat accesses to enhance your boating experience? (CHECK ALL THAT APPLY)

- ☐ depth map of lake                      ☐ emergency information  
☐ boating restrictions for lake                      ☐ description of natural history of lake  
☐ boating hazards map of lake                      ☐ information on where to buy boat gas  
☐ fishing information for lake                      ☐ I don't use public boat accesses  
☐ other (please specify) \_\_\_\_\_

40. How effective would each of the following be in getting you to take steps to prevent further spread of exotic species, such as Eurasian watermilfoil and zebra mussels? (MARK ONE OF THE BOXES FOR EACH OF THE NUMBERED ITEMS)

ITEM	very effective	moderately effective	slightly effective	not effective	don't know
1. laws that make it illegal to transport exotic species					
2. road checks to enforce the laws					
3. signs at boat landings					
4. inspection-education programs at boat launches					
5. information included in fishing and boating regulations and pamphlets					

### JUST A FEW FINAL QUESTIONS

41. What type of radio station do you primarily listen to? (CHECK ONE)

- ☐ classical                      ☐ country                      ☐ rock & roll  
☐ easy listening/lite                      ☐ jazz                      ☐ talk  
☐ sports                      ☐ other (please specify) \_\_\_\_\_

42. Do you have a home computer connected to an on-line service or the Internet? (CHECK ONE)

- ☐ yes                      ☐ no                      ☐ don't know/not sure

43. Do you have a home computer with a CD-ROM drive? (CHECK ONE)

- ☐ yes                      ☐ no                      ☐ don't know/not sure

44. Which category best describes your total household income before taxes last year? (CHECK ONE)

- ☐ less than \$20,000                      ☐ \$40,000-\$49,999                      ☐ \$100,000 or more  
☐ \$20,000-\$29,999                      ☐ \$50,000-\$74,999                      ☐ refuse to answer  
☐ \$30,000-\$39,999                      ☐ \$75,000-\$99,999                      ☐ don't know/not sure

**THAT'S THE END OF THE QUESTIONS. THANK YOU VERY MUCH.**

1998 NORTH CENTRAL BOATING STUDY  
MINNESOTA DEPARTMENT OF NATURAL RESOURCES  
Lakeshore Resident Boaters

Dear Boater,

Every few years we—the Minnesota DNR—survey boaters on recreational boating issues, such as boating opportunities, boating safety and exotic species. The DNR makes many decisions that affect these issues. When making these decisions, we want to be sure we understand what you think.

Please complete this survey today, and mail it back to us in the postage-paid envelope. **THE SURVEY WILL ONLY TAKE ABOUT 15 MINUTES TO COMPLETE.**

If you have any questions about this survey, please call Forrest Boe at the DNR in Brainerd at 218-828-2557.

Thank you for your help.

---

1. Do you own property with lake frontage or lake access rights in Aitkin, Cass, or Crow Wing County?  
(CHECK ONE)  
☐ yes ☐ no

If you answered no, then do not complete the form. Place it in the postage paid envelope and return it today. Thank you.

2. Is this property your permanent home? (CHECK ONE)  
☐ yes ☐ no

3. How many years have you been boating on this lake that fronts your property?  years

4. When was the last time you used a boat on this lake?  month/day/year

**THE NEXT SET OF QUESTIONS ARE ABOUT YOUR BOATING EXPERIENCE ON THAT DAY IN QUESTION #4.**

5. Did you yourself operate the boat for any of the time on that day? (CHECK ONE)  
☐ yes ☐ no

6. How many people, including yourself, were in your boat on that day?  people

7. What time did you leave from shore?  AM/PM

8. What time did you return to shore?  AM/PM

9. How many of the hours on that day were spent on shore or tied up at a dock?  hours

10. What was your group's primary activity on the lake on that day? (CHECK ONE)  
☐ fishing      ☐ sailing      ☐ boat ride      ☐ transportation to/from  
☐ canoeing      ☐ jet skiing      ☐ water skiing      ☐ other (please specify) \_\_\_\_\_
11. While you were boating on that day, did you pull your boat up on the beach? (CHECK ONE)  
☐ yes      ☐ no
12. While you were boating on that day, did you anchor or tie up with other boats into a raft?  
(CHECK ONE)      ☐ yes      ☐ no
13. What type of boat did you use on that day? (CHECK ONE)  
☐ Cruiser (has cabin or superstructure)      ☐ Jetski      ☐ Canoe/Kayak  
☐ Runabout (has windshield)      ☐ Pontoon      ☐ Sailboat  
☐ Fishing (no windshield)      ☐ Other (please specify) \_\_\_\_\_
14. What is the length of that boat? \_\_\_\_\_ feet
15. What type of motor does that boat have? (CHECK ONE TYPE, FILL IN HORSEPOWER FOR GAS MOTOR) TYPE: \_\_\_\_\_ gas (\_\_\_\_\_ horsepower)      ☐ electric      ☐ no motor      ☐ don't know
16. What type of second motor (if applicable) does that boat have? (CHECK ONE TYPE, FILL IN HORSEPOWER FOR GAS MOTOR)  
TYPE: \_\_\_\_\_ gas (\_\_\_\_\_ horsepower)      ☐ electric      ☐ no motor      ☐ don't know
17. Which of the following do you have on your boat? (CHECK ALL THAT APPLY)  
☐ fire extinguisher      ☐ horn      ☐ lights  
☐ visual signal (flag, flare gun)      ☐ none of these items      ☐ don't know
18. Which of the following beverages did you have with you on the boat on that day? (CHECK ALL THAT APPLY)  
☐ soft drinks      ☐ beer      ☐ no beverages  
☐ coffee/tea/water      ☐ wine      ☐ refuse to answer  
☐ other nonalcoholic      ☐ other alcoholic      ☐ don't know/not sure
19. Overall, how satisfied or dissatisfied were you with your boating experience on that day? (CHECK ONE) \_\_\_\_\_ very satisfied      \_\_\_\_\_ satisfied      \_\_\_\_\_ dissatisfied      \_\_\_\_\_ very dissatisfied      \_\_\_\_\_ don't know/not sure
20. What was the main reason(s) you were so satisfied or dissatisfied? (please describe)  
\_\_\_\_\_
21. While you were on the lake on that day, did you see an enforcement officer? (CHECK ONE)  
☐ yes      ☐ no      ☐ don't know/not sure
22. Were you checked by an enforcement officer on that day? (CHECK ONE)  
☐ yes      ☐ no
23. On this last boating trip, did you travel through any parts of the lake where you thought there were too many boats? (CHECK ONE)      ☐ yes      ☐ no      ☐ don't know/not sure

24. How does the number of boats you encountered on this last boating trip compare to the number of boats you have seen on other trips on this same part of the lake? (CHECK ONE)  
       \_\_\_ substantially fewer      \_\_\_ slightly fewer      \_\_\_ about the same  
       \_\_\_ slightly more      \_\_\_ substantially more  
       \_\_\_ don't know/not sure      \_\_\_ haven't boated here before this trip
25. From a safety standpoint, how did you feel about the number of boats on the lake on your last boating trip? (CHECK ONE)  
       \_\_\_ few boats here      \_\_\_ about right      \_\_\_ crowded      \_\_\_ far too crowded      \_\_\_ don't know/not sure
26. Again, from a safety standpoint, how do you feel about the number of boats that are "usually" on this lake? (CHECK ONE)  
       \_\_\_ few boats here      \_\_\_ about right      \_\_\_ crowded      \_\_\_ far too crowded      \_\_\_ don't know/not sure
27. Would you boat again if you knew there were going to be about the same number of boats as on your last boating trip? (CHECK ONE)  
       \_\_\_ yes      \_\_\_ no      \_\_\_ don't know/not sure
28. Based on your experience on your last boating trip, how much of a problem is each of the following on this lake? (MARK ONE OF THE BOXES FOR EACH OF THE NUMBERED ITEMS)

ITEM	not a problem	slight problem	moderate problem	serious problem	very serious problem	don't know
1. careless or inconsiderate operation of boats						
2. boat operators who have been drinking too much						
3. the amount of noise from boats on the lake						
4. near miss or collision						
5. high wakes						
6. use of personal watercraft (jet skis)						
7. large boats (boats over 24 feet)						
8. boats operating too fast, too close to shore/docks						
9. boats not yielding the right-of-way						
10. excessive speed in channels and crowded areas						
11. excessive speed in open water						

### NOW WE HAVE SOME QUESTIONS ABOUT BOATING SAFETY

29. What special boating restrictions are there for this lake? (CHECK ALL THAT APPLY)  
       \_\_\_ none      \_\_\_ horsepower restrictions  
       \_\_\_ boat type and size restrictions      \_\_\_ speed restrictions/quiet waters  
       \_\_\_ time restrictions      \_\_\_ area of lake restrictions  
       \_\_\_ don't know/not sure      \_\_\_ other (please describe) \_\_\_\_\_  
       \_\_\_ requirement to remove Eurasian milfoil & zebra mussels from boat & trailer  
               before leaving water body
30. Overall, how do these restrictions affect your enjoyment of the lake? (CHECK ONE)  
       \_\_\_ add to enjoyment      \_\_\_ detract from enjoyment      \_\_\_ neutral with respect to enjoyment

31. Overall, do think special boating restrictions on this lake are: (CHECK ONE)  
☐ too restrictive    ☐ about right    ☐ not restrictive enough    ☐ don't know
32. What special boating restrictions are needed for this lake? (CHECK ALL THAT ARE NEEDED)  
☐ none    ☐ horsepower restrictions  
☐ boat type and size restrictions    ☐ speed restrictions/quiet waters  
☐ time restrictions    ☐ area of lake restrictions  
☐ don't know/not sure    ☐ other (please describe)  
☐ special restrictions for personal watercraft (jet skis)  
☐ requirement to remove Eurasian milfoil & zebra mussels from boat & trailer before leaving water body
33. Have you taken a formal course in boating safety? (CHECK ONE)  
☐ yes    ☐ no    ☐ don't know/not sure
34. Should all boat operators (powered & unpowered) be required to complete a boating safety course? (CHECK ONE) ☐ yes    ☐ no    ☐ don't know/not sure
35. Should all motorboat operators be required to obtain an operator's license? (CHECK ONE)  
☐ yes    ☐ no    ☐ don't know/not sure

#### NOW SOME GENERAL QUESTIONS

36. Are there sufficient opportunities on this lake that fronts your property to: (CHECK THE APPROPRIATE RESPONSE FOR EACH QUESTION)
- a. Beach your boat: ☐ yes    ☐ no    ☐ don't know/not sure
  - b. Anchor or tie up with other boats into a raft: ☐ yes    ☐ no    ☐ don't know/not sure
  - c. Use picnic areas or toilets at a public lakeshore wayside: ☐ yes    ☐ no    ☐ don't know/not sure
  - d. Use restaurants: ☐ yes    ☐ no    ☐ don't know/not sure
  - e. Purchase gasoline: ☐ yes    ☐ no    ☐ don't know/not sure
37. In the past 12 months, how many times did you use a free public access on this lake?  # of times  
☐ check here if this lake does not have a public access
38. Do you think an additional (or initial) public boat access is needed on this lake? (CHECK ONE)  
☐ yes    ☐ no    ☐ don't know
- 38a. (IF YES) Why is it needed? (CHECK ALL THAT APPLY)  
☐ there is no access now—is needed for my use  
☐ present access is too congested  
☐ present access is on wrong part of the lake  
☐ present access is too shallow  
☐ present access is too far off main roads  
☐ present access it too difficult to launch/land a boat in certain weather  
☐ other (please specify)
39. How many other lakes do you boat on within about 50 miles of this lake?  lakes

40. How do you gain access to these other lakes? (CHECK ALL THAT APPLY)

- ☐ free public access launch site      ☐ friend or relative's home/cabin  
☐ my home or cabin      ☐ resort, marina or private launch site  
☐ other (please specify) \_\_\_\_\_

41. What types of information should be available at public boat accesses to enhance your boating experience? (CHECK ALL THAT APPLY)

- ☐ depth map of lake      ☐ emergency information  
☐ boating restrictions for lake      ☐ description of natural history of lake  
☐ boating hazards map of lake      ☐ information on where to buy boat gas  
☐ fishing information for lake      ☐ I don't use public boat accesses  
☐ other (please specify) \_\_\_\_\_

42. How effective would each of the following be in getting you to take steps to prevent further spread of exotic species, such as Eurasian watermilfoil and zebra mussels? (MARK ONE OF THE BOXES FOR EACH OF THE NUMBERED ITEMS)

ITEM	very effective	moderately effective	slightly effective	not effective	don't know
1. laws that make it illegal to transport exotic species					
2. road checks to enforce the laws					
3. signs at boat landings					
4. inspection-education programs at boat launches					
5. information included in fishing and boating regulations and pamphlets					

### JUST A FEW FINAL QUESTIONS

43. What type of radio station do you primarily listen to? (CHECK ONE)

- ☐ classical      ☐ country      ☐ rock & roll  
☐ easy listening/lite      ☐ jazz      ☐ talk  
☐ sports      ☐ other (please specify) \_\_\_\_\_

44. Do you have a home computer connected to an on-line service or the Internet? (CHECK ONE)

- ☐ yes      ☐ no      ☐ don't know/not sure

45. Do you have a home computer with a CD-ROM drive? (CHECK ONE)

- ☐ yes      ☐ no      ☐ don't know/not sure

46. Which category best describes your total household income before taxes last year? (CHECK ONE)

- ☐ less than \$20,000      ☐ \$40,000-\$49,999      ☐ \$100,000 or more  
☐ \$20,000-\$29,999      ☐ \$50,000-\$74,999      ☐ refuse to answer  
☐ \$30,000-\$39,999      ☐ \$75,000-\$99,999      ☐ don't know/not sure

**THAT'S THE END OF THE QUESTIONS. THANK YOU VERY MUCH.**

1998 NORTH CENTRAL BOATING STUDY  
MINNESOTA DEPARTMENT OF NATURAL RESOURCES  
Mille Lacs Lakeshore Resident Boaters

Dear Boater,

Every few years we—the Minnesota DNR—survey boaters on recreational boating issues, such as boating opportunities, boating safety and exotic species. The DNR makes many decisions that affect these issues. When making these decisions, we want to be sure we understand what you think.

Please complete this survey today, and mail it back to us in the postage-paid envelope. **THE SURVEY WILL ONLY TAKE ABOUT 15 MINUTES TO COMPLETE.**

If you have any questions about this survey, please call Forrest Boe at the DNR in Brainerd at 218-828-2557.

Thank you for your help.

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1. Do you own property with lake frontage or lake access rights on Mille Lacs? (CHECK ONE)  
\_\_\_\_\_ yes          \_\_\_\_\_ no

If you answered no, then do not complete the form. Place it in the postage paid envelope and return it today. Thank you.

2. Is this property your permanent home? (CHECK ONE)  
\_\_\_\_\_ yes          \_\_\_\_\_ no

3. How many years have you been boating on this lake that fronts your property? \_\_\_\_\_ years

4. When was the last time you used a boat on this lake? \_\_\_\_\_ month/day/year

**THE NEXT SET OF QUESTIONS ARE ABOUT YOUR BOATING EXPERIENCE ON THAT DAY IN QUESTION #4.**

5. Did you yourself operate the boat for any of the time on that day? (CHECK ONE)  
\_\_\_\_\_ yes          \_\_\_\_\_ no

6. How many people, including yourself, were in your boat on that day? \_\_\_\_\_ people

7. What time did you leave from shore? \_\_\_\_\_ AM/PM

8. What time did you return to shore? \_\_\_\_\_ AM/PM

9. How many of the hours on that day were spent on shore or tied up at a dock? \_\_\_\_\_ hours



10. What was your group's primary activity on the lake on that day? (CHECK ONE)  
☐ fishing      ☐ sailing      ☐ boat ride      ☐ transportation to/from  
☐ canoeing      ☐ jet skiing      ☐ water skiing      ☐ other (please specify) \_\_\_\_\_
11. While you were boating on that day, did you pull your boat up on the beach? (CHECK ONE)  
☐ yes      ☐ no
12. While you were boating on that day, did you anchor or tie up with other boats into a raft?  
(CHECK ONE)      ☐ yes      ☐ no
13. What type of boat did you use on that day? (CHECK ONE)  
☐ Cruiser (has cabin or superstructure)      ☐ Jetski      ☐ Canoe/Kayak  
☐ Runabout (has windshield)      ☐ Pontoon      ☐ Sailboat  
☐ Fishing (no windshield)      ☐ Other (please specify) \_\_\_\_\_
14. What is the length of that boat? \_\_\_\_\_ feet
15. What type of motor does that boat have? (CHECK ONE TYPE, FILL IN HORSEPOWER FOR GAS MOTOR) TYPE: ☐ gas (\_\_\_\_\_ horsepower)      ☐ electric      ☐ no motor      ☐ don't know
16. What type of second motor (if applicable) does that boat have? (CHECK ONE TYPE, FILL IN HORSEPOWER FOR GAS MOTOR)  
TYPE: ☐ gas (\_\_\_\_\_ horsepower)      ☐ electric      ☐ no motor      ☐ don't know
17. Which of the following do you have on your boat? (CHECK ALL THAT APPLY)  
☐ fire extinguisher      ☐ horn      ☐ lights  
☐ visual signal (flag, flare gun)      ☐ none of these items      ☐ don't know
18. Which of the following beverages did you have with you on the boat on that day? (CHECK ALL THAT APPLY)  
☐ soft drinks      ☐ beer      ☐ no beverages  
☐ coffee/tea/water      ☐ wine      ☐ refuse to answer  
☐ other nonalcoholic      ☐ other alcoholic      ☐ don't know/not sure
19. Overall, how satisfied or dissatisfied were you with your boating experience on that day? (CHECK ONE) ☐ very satisfied      ☐ satisfied      ☐ dissatisfied      ☐ very dissatisfied      ☐ don't know/not sure
20. What was the main reason(s) you were so satisfied or dissatisfied? (please describe)  
\_\_\_\_\_
21. While you were on the lake on that day, did you see an enforcement officer? (CHECK ONE)  
☐ yes      ☐ no      ☐ don't know/not sure
22. Were you checked by an enforcement officer on that day? (CHECK ONE)  
☐ yes      ☐ no
23. On this last boating trip, did you travel through any parts of the lake where you thought there were too many boats? (CHECK ONE)      ☐ yes      ☐ no      ☐ don't know/not sure

24. How does the number of boats you encountered on this last boating trip compare to the number of boats you have seen on other trips on this same part of the lake? (CHECK ONE)  
       \_\_\_ substantially fewer      \_\_\_ slightly fewer      \_\_\_ about the same  
       \_\_\_ slightly more      \_\_\_ substantially more  
       \_\_\_ don't know/not sure      \_\_\_ haven't boated here before this trip
25. From a safety standpoint, how did you feel about the number of boats on the lake on your last boating trip? (CHECK ONE)  
       \_\_\_ few boats here      \_\_\_ about right      \_\_\_ crowded      \_\_\_ far too crowded      \_\_\_ don't know/not sure
26. Again, from a safety standpoint, how do you feel about the number of boats that are "usually" on this lake? (CHECK ONE)  
       \_\_\_ few boats here      \_\_\_ about right      \_\_\_ crowded      \_\_\_ far too crowded      \_\_\_ don't know/not sure
27. Would you boat again if you knew there were going to be about the same number of boats as on your last boating trip? (CHECK ONE)  
       \_\_\_ yes      \_\_\_ no      \_\_\_ don't know/not sure
28. Based on your experience on your last boating trip, how much of a problem is each of the following on this lake? (MARK ONE OF THE BOXES FOR EACH OF THE NUMBERED ITEMS)

ITEM	not a problem	slight problem	moderate problem	serious problem	very serious problem	don't know
1. careless or inconsiderate operation of boats						
2. boat operators who have been drinking too much						
3. the amount of noise from boats on the lake						
4. near miss or collision						
5. high wakes						
6. use of personal watercraft (jet skis)						
7. large boats (boats over 24 feet)						
8. boats operating too fast, too close to shore/docks						
9. boats not yielding the right-of-way						
10. excessive speed in channels and crowded areas						
11. excessive speed in open water						

#### NOW WE HAVE SOME QUESTIONS ABOUT BOATING SAFETY

29. What special boating restrictions are there for this lake? (CHECK ALL THAT APPLY)  
       \_\_\_ none      \_\_\_ horsepower restrictions  
       \_\_\_ boat type and size restrictions      \_\_\_ speed restrictions/quiet waters  
       \_\_\_ time restrictions      \_\_\_ area of lake restrictions  
       \_\_\_ don't know/not sure      \_\_\_ other (please describe) \_\_\_\_\_  
       \_\_\_ requirement to remove Eurasian milfoil & zebra mussels from boat & trailer  
               before leaving water body
30. Overall, how do these restrictions affect your enjoyment of the lake? (CHECK ONE)  
       \_\_\_ add to enjoyment      \_\_\_ detract from enjoyment      \_\_\_ neutral with respect to enjoyment

31. Overall, do think special boating restrictions on this lake are: (CHECK ONE)  
☐ too restrictive    ☐ about right    ☐ not restrictive enough    ☐ don't know

32. What special boating restrictions are needed for this lake? (CHECK ALL THAT ARE NEEDED)

- |   |  |
|---|--|
| <input type="checkbox"/> none   | <input type="checkbox"/> horsepower restrictions         |
| <input type="checkbox"/> boat type and size restrictions  | <input type="checkbox"/> speed restrictions/quiet waters |
| <input type="checkbox"/> time restrictions  | <input type="checkbox"/> area of lake restrictions       |
| <input type="checkbox"/> don't know/not sure  | <input type="checkbox"/> other (please describe)         |
| <input type="checkbox"/> special restrictions for personal watercraft (jet skis)  |  |
| <input type="checkbox"/> requirement to remove Eurasian milfoil & zebra mussels from boat & trailer before leaving water body |  |

33. Have you taken a formal course in boating safety? (CHECK ONE)  
☐ yes    ☐ no    ☐ don't know/not sure

34. Should all boat operators (powered & unpowered) be required to complete a boating safety course? (CHECK ONE) ☐ yes    ☐ no    ☐ don't know/not sure

35. Should all motorboat operators be required to obtain an operator's license? (CHECK ONE)  
☐ yes    ☐ no    ☐ don't know/not sure

#### NOW SOME GENERAL QUESTIONS

M1. In the last 12 months, how many days did you ice fish on Mille Lacs?  days

M2. In the last 12 months, how many days did you fish in open water on Mille Lacs?  days

M3. In the last 12 months, how many times did you start a Mille Lacs boating trip from: (FILL IN THE NUMBER OF TIMES FOR EACH ITEM)

- |  |                            |
|--|----------------------------|
| a. your own property?                              | <input type="text"/> times |
| b. a friend's property (not a commercial site)?    | <input type="text"/> times |
| c. a marina or private boat launch site?           | <input type="text"/> times |
| d. a designated (signed) free public access?       | <input type="text"/> times |
| e. a undesignated boat access, such as a road end? | <input type="text"/> times |

36. Are there sufficient opportunities on this lake that fronts your property to: (CHECK THE APPROPRIATE RESPONSE FOR EACH QUESTION)

- |   |                              |                             |  |
|---|------------------------------|-----------------------------|--|
| a. Beach your boat:   | <input type="checkbox"/> yes | <input type="checkbox"/> no | <input type="checkbox"/> don't know/not sure |
| b. Anchor or tie up with other boats into a raft:             | <input type="checkbox"/> yes | <input type="checkbox"/> no | <input type="checkbox"/> don't know/not sure |
| c. Use picnic areas or toilets at a public lakeshore wayside: | <input type="checkbox"/> yes | <input type="checkbox"/> no | <input type="checkbox"/> don't know/not sure |
| d. Use restaurants:   | <input type="checkbox"/> yes | <input type="checkbox"/> no | <input type="checkbox"/> don't know/not sure |
| e. Purchase gasoline:   | <input type="checkbox"/> yes | <input type="checkbox"/> no | <input type="checkbox"/> don't know/not sure |

38. Do you think an additional (or initial) public boat access is needed on this lake? (CHECK ONE)  
☐ yes    ☐ no    ☐ don't know

38a. (IF YES) Why is it needed? (CHECK ALL THAT APPLY)

- ☐ there is no access now—is needed for my use
- ☐ present access is too congested
- ☐ present access is on wrong part of the lake
- ☐ present access is too shallow
- ☐ present access is too far off main roads
- ☐ present access is too difficult to launch/land a boat in certain weather
- ☐ other (please specify) \_\_\_\_\_

39. How many other lakes do you boat on within about 50 miles of this lake? \_\_\_\_ lakes

40. How do you gain access to these other lakes? (CHECK ALL THAT APPLY)

- ☐ free public access launch site
- ☐ my home or cabin
- ☐ other (please specify) \_\_\_\_\_
- ☐ friend or relative's home/cabin
- ☐ resort, marina or private launch site

41. What types of information should be available at public boat accesses to enhance your boating experience? (CHECK ALL THAT APPLY)

- ☐ depth map of lake
- ☐ boating restrictions for lake
- ☐ boating hazards map of lake
- ☐ fishing information for lake
- ☐ other (please specify) \_\_\_\_\_
- ☐ emergency information
- ☐ description of natural history of lake
- ☐ information on where to buy boat gas
- ☐ I don't use public boat accesses

42. How effective would each of the following be in getting you to take steps to prevent further spread of exotic species, such as Eurasian watermilfoil and zebra mussels? (MARK ONE OF THE BOXES FOR EACH OF THE NUMBERED ITEMS)

ITEM	very effective	moderately effective	slightly effective	not effective	don't know
1. laws that make it illegal to transport exotic species					
2. road checks to enforce the laws					
3. signs at boat landings					
4. inspection-education programs at boat launches					
5. information included in fishing and boating regulations and pamphlets					

### JUST A FEW FINAL QUESTIONS

43. What type of radio station do you primarily listen to? (CHECK ONE)

- ☐ classical
- ☐ easy listening/lite
- ☐ sports
- ☐ country
- ☐ jazz
- ☐ other (please specify) \_\_\_\_\_
- ☐ rock & roll
- ☐ talk

44. Do you have a home computer connected to an on-line service or the Internet? (CHECK ONE)

- ☐ yes
- ☐ no
- ☐ don't know/not sure

45. Do you have a home computer with a CD-ROM drive? (CHECK ONE)

☐ yes    ☐ no    ☐ don't know/not sure

46. Which category best describes your total household income before taxes last year? (CHECK ONE)

<input type="checkbox"/> less than \$20,000	<input type="checkbox"/> \$40,000-\$49,999	<input type="checkbox"/> \$100,000 or more
<input type="checkbox"/> \$20,000-\$29,999	<input type="checkbox"/> \$50,000-\$74,999	<input type="checkbox"/> refuse to answer
<input type="checkbox"/> \$30,000-\$39,999	<input type="checkbox"/> \$75,000-\$99,999	<input type="checkbox"/> don't know/not sure

**THAT'S THE END OF THE QUESTIONS. THANK YOU VERY MUCH.**

## Appendix V

### Tabulation of Survey Results

Survey results in this appendix were compiled by the Minnesota Department of Natural Resources, Office of Management and Budget Services, from data supplied as a part of this study.

Survey results were differentially weighted according to boating use by source of boater survey, day of week and lake class prior to analysis to ensure that responses from each stratum are appropriately represented in the results. Source of boater survey included public access, commercial access including campgrounds, and residents. Day of week included weekends/holidays and weekdays. Lake class included Mille Lacs, other large lakes with public access, 'A' lakes with public access 'B' lakes with public access, 'C' lakes with public access, and all lakes without public access.

Tables of survey results are broken down by source of boater survey, day of week, and lake class. The best way to understand how to read the tables is to examine a table. All of the tables are in a standard format. The first question in the public access boater survey asked: "How many years have you been boating on this lake?" Responses to this question are tabulated below:

**Column:**

**A   B   C   D   E   F   G   H   I   J   K   L**

**How many years have you been boating on this lake?**

Rows:	Figures are: Column percent Years	Total	Source of boater survey			Day of week		Lake class - 1998					
			Public access	Commercial access	Resident	Weekends	Weekdays	Mille Lacs	Large lakes	'A' lakes PA	'B' lakes PA	'C' lakes PA	All NPA lakes
<b>1</b>	0	3.5%	4.6%	9.2%	.0%	2.6%	4.9%	.9%	5.2%	2.8%	.9%	1.1%	14.9%
<b>2</b>	1 - 5	22.2%	33.1%	27.7%	13.2%	23.6%	21.3%	18.2%	24.8%	21.5%	25.4%	28.6%	15.4%
<b>3</b>	6 - 10	17.8%	19.6%	15.0%	18.1%	19.7%	15.6%	16.4%	20.7%	16.5%	18.4%	20.0%	14.2%
<b>4</b>	11 - 15	11.6%	8.8%	17.4%	10.3%	8.8%	14.1%	12.3%	9.0%	12.7%	12.6%	7.2%	14.3%
<b>5</b>	16 - 20	11.4%	8.4%	11.4%	13.1%	10.8%	10.5%	16.8%	10.9%	10.3%	10.7%	9.2%	8.9%
<b>6</b>	21 - 30	17.6%	17.6%	10.6%	21.2%	19.1%	15.6%	21.7%	14.7%	17.4%	18.5%	21.8%	14.6%
<b>7</b>	31+	15.9%	7.9%	8.7%	24.1%	15.4%	18.0%	13.8%	14.6%	18.8%	13.5%	12.3%	17.7%
<b>8</b>	Number of surveys	3060	965	912	1183	1216	1569	525	1475	494	230	170	166

Column A in the table gives the response for all respondents; columns B, C and D are for respondents who received their surveys at a public access, commercial access or lakeshore residence, respectively; columns E and F are for respondents who answered the survey for a weekend/holiday or weekday boat outing, respectively; and columns G through L are the respondents who answered the survey for the lake class specified.

Rows 1 through 7 give the response categories for the question. Row 8 is the number of surveys returned with valid responses to this question. The number of valid responses by day of week is usually less than by the other strata. This is due to the lack of day of week information on Mille Lacs public access and commercial access survey recipients.

For further clarification on reading the table, look at column J ('B' lakes with public access'). One-quarter (25.4%) of the respondents surveyed on a class 'B' lake had used the lake for 1-5 years; 13.5% had used the lake for over 30 years. There were 230 surveys returned with valid responses to this question from respondents who received their survey on a class 'B' lake.

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### Is this property your permanent home?

Figures are: Column percent Answer	Total	Source of boater survey	Day of week		Lake class - 1998					
		Resident	Weekends	Weekdays	Mille Lacs	Large lakes	'A' lakes PA	'B' lakes PA	'C' lakes PA	All NPA lakes
Yes	35.3%	35.3%	27.4%	44.8%	47.6%	38.3%	31.9%	26.1%	45.0%	31.7%
No	64.7%	64.7%	72.6%	55.2%	52.4%	61.7%	68.1%	73.9%	55.0%	68.3%
Number of surveys	1176	1176	553	623	251	264	266	147	105	143

### How many years have you been boating on this lake?

Figures are: Column percent Years	Total	Source of boater survey			Day of week		Lake class - 1998					
		Public access	Commercial access	Resident	Weekends	Weekdays	Mille Lacs	Large lakes	'A' lakes PA	'B' lakes PA	'C' lakes PA	All NPA lakes
Mean	17.4	13.3	13.0	22.0	17.2	17.9	18.5	16.1	18.5	16.8	15.6	16.4
Median	14.0	10.0	10.0	20.0	13.0	14.0	18.0	10.0	15.0	12.0	11.0	11.0
Minimum	.0	.0	.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0
Maximum	85.0	70.0	59.0	85.0	75.0	85.0	65.0	80.0	85.0	65.0	60.0	75.0
Number of surveys	3060	965	912	1183	1216	1569	525	1475	494	230	170	166

### How many years have you been boating on this lake?

Figures are: Column percent Years	Total	Source of boater survey			Day of week		Lake class - 1998					
		Public access	Commercial access	Resident	Weekends	Weekdays	Mille Lacs	Large lakes	'A' lakes PA	'B' lakes PA	'C' lakes PA	All NPA lakes
0	3.5%	4.6%	9.2%	.0%	2.6%	4.9%	.9%	5.2%	2.8%	.9%	1.1%	14.9%
1 - 5	22.2%	33.1%	27.7%	13.2%	23.6%	21.3%	18.2%	24.8%	21.5%	25.4%	28.6%	15.4%
6 - 10	17.8%	19.6%	15.0%	18.1%	19.7%	15.6%	16.4%	20.7%	16.5%	18.4%	20.0%	14.2%
11 - 15	11.6%	8.8%	17.4%	10.3%	8.8%	14.1%	12.3%	9.0%	12.7%	12.6%	7.2%	14.3%
16 - 20	11.4%	8.4%	11.4%	13.1%	10.8%	10.5%	16.8%	10.9%	10.3%	10.7%	9.2%	8.9%
21 - 30	17.6%	17.6%	10.6%	21.2%	19.1%	15.6%	21.7%	14.7%	17.4%	18.5%	21.8%	14.6%
31+	15.9%	7.9%	8.7%	24.1%	15.4%	18.0%	13.8%	14.6%	18.8%	13.5%	12.3%	17.7%
Number of surveys	3060	965	912	1183	1216	1569	525	1475	494	230	170	166

### How far is your permanent home from this lake?

Figures are: Column percent Miles	Total	Source of boater survey		Day of week		Lake class - 1998					
		Public access	Commercial access	Weekends	Weekdays	Mille Lacs	Large lakes	'A' lakes PA	'B' lakes PA	'C' lakes PA	All NPA lakes
Mean	144.5	118.6	173.5	153.3	153.7	102.6	155.4	140.1	151.8	115.4	282.5
Median	115.0	100.0	120.0	130.0	120.0	95.0	130.0	125.0	100.0	90.0	120.0
Minimum	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Maximum	4000.0	2000.0	4000.0	4000.0	3000.0	550.0	4000.0	2000.0	1800.0	2000.0	1400.0
Number of surveys	1921	991	930	678	968	275	1240	235	88	67	16

### How far is your permanent home from this lake?

Figures are: Column percent Miles	Total	Source of boater survey		Day of week		Lake class - 1998					
		Public access	Commercial access	Weekends	Weekdays	Mille Lacs	Large lakes	'A' lakes PA	'B' lakes PA	'C' lakes PA	All NPA lakes
0	9.1%	6.9%	11.6%	7.7%	13.6%	1.2%	8.7%	12.6%	13.9%	4.4%	5.6%
1 - 20	12.0%	14.7%	9.0%	15.5%	12.4%	3.4%	14.9%	16.4%	11.8%	6.8%	2.8%
21 - 100	27.1%	29.0%	24.9%	17.7%	20.7%	63.1%	15.7%	15.0%	26.0%	40.8%	26.8%
101 - 150	28.2%	28.5%	27.9%	32.3%	27.1%	22.1%	32.2%	28.9%	21.6%	39.4%	40.7%
151 - 200	12.8%	13.5%	12.0%	15.7%	13.1%	5.6%	16.7%	15.9%	13.1%	5.3%	.0%
201 - 300	4.6%	4.5%	4.7%	5.0%	5.1%	2.5%	5.5%	7.0%	2.9%	1.8%	.0%
301+	6.2%	2.9%	9.9%	6.1%	8.0%	2.1%	6.2%	4.2%	10.7%	1.5%	24.1%
Number of surveys	1921	991	930	678	968	275	1240	235	88	67	16

### Do you have a home or residence on this lake?

Figures are: Column percent Answer	Total	Source of boater survey		Day of week		Lake class - 1998					
		Public access	Commercial access	Weekends	Weekdays	Mille Lacs	Large lakes	'A' lakes PA	'B' lakes PA	'C' lakes PA	All NPA lakes
Yes	26.9%	25.1%	28.8%	28.1%	31.9%	11.9%	21.7%	30.2%	41.5%	45.6%	26.8%
No	73.1%	74.9%	71.2%	71.9%	68.1%	88.1%	78.3%	69.8%	58.5%	54.4%	73.2%
Number of surveys	1908	982	926	671	964	273	1233	235	86	65	16

### Where did you launch your boat on this trip?

Figures are: Column percent Location	Total	Source of boater survey	Day of week		Lake class - 1998				
		Public access	Weekends	Weekdays	Mille Lacs	Large lakes	'A' lakes PA	'B' lakes PA	'C' lakes PA
This access	65.6%	65.6%	61.8%	58.0%	97.3%	65.5%	61.9%	46.5%	59.5%
Private access	13.6%	13.6%	18.2%	13.8%	.0%	12.9%	12.3%	24.9%	26.1%
Other public access	4.9%	4.9%	2.9%	8.0%	2.0%	6.0%	5.0%	5.4%	4.1%
Resort/camp	6.6%	6.6%	8.5%	7.1%	.0%	6.4%	6.6%	13.8%	4.1%
Other	9.3%	9.3%	8.7%	13.1%	.7%	9.2%	14.2%	9.4%	6.2%
Number of surveys	983	983	306	527	150	621	126	41	45

### Where did you park?

Figures are: Column percent Location	Total	Source of boater survey	Day of week		Lake class - 1998				
		Public access	Weekends	Weekdays	Mille Lacs	Large lakes	'A' lakes PA	'B' lakes PA	'C' lakes PA
This lot	53.3%	53.3%	48.9%	42.3%	96.6%	56.1%	41.6%	39.2%	33.0%
Friend's home	2.1%	2.1%	1.2%	3.7%	.7%	2.2%	3.6%	.0%	4.1%
At home	23.5%	23.5%	29.8%	25.2%	.7%	15.2%	30.2%	37.2%	46.6%
Street	2.1%	2.1%	2.7%	1.9%	.7%	1.5%	2.3%	3.8%	2.0%
Another lot	3.4%	3.4%	2.3%	5.9%	.0%	4.1%	4.3%	3.5%	4.1%
Other	15.6%	15.6%	15.2%	21.1%	1.3%	20.9%	17.9%	16.3%	10.2%
Number of surveys	975	975	305	521	149	612	126	42	46

### Did you operate the boat for any of the time on this trip

Figures are: Column percent Answer	Total	Source of boater survey			Day of week		Lake class - 1998					
		Public access	Commercial access	Resident	Weekends	Weekdays	Mille Lacs	Large lakes	'A' lakes PA	'B' lakes PA	'C' lakes PA	All NPA lakes
Yes	86.1%	85.7%	83.2%	87.9%	86.9%	84.9%	88.7%	87.4%	87.2%	82.2%	89.5%	77.0%
No	13.9%	14.3%	16.8%	12.1%	13.1%	15.1%	11.3%	12.6%	12.8%	17.8%	10.5%	23.0%
Number of surveys	3083	976	925	1182	1229	1579	527	1490	499	235	170	162

### How many people, including yourself, were in your boat on this trip

Figures are: Column percent People	Total	Source of boater survey			Day of week		Lake class - 1998					
		Public access	Commercial access	Resident	Weekends	Weekdays	Mille Lacs	Large lakes	'A' lakes PA	'B' lakes PA	'C' lakes PA	All NPA lakes
1	9.5%	7.4%	5.0%	13.0%	8.5%	9.2%	15.0%	6.6%	11.2%	4.9%	5.2%	10.7%
2	34.4%	34.6%	31.9%	35.5%	31.9%	32.7%	48.5%	26.6%	33.0%	34.6%	33.8%	34.5%
3	15.8%	10.1%	17.5%	18.3%	15.2%	15.4%	21.9%	13.4%	14.8%	15.3%	17.1%	15.4%
4	19.7%	22.8%	18.1%	18.7%	21.1%	21.1%	7.6%	24.5%	21.0%	25.9%	16.6%	14.0%
5	7.3%	12.1%	5.1%	5.6%	8.0%	7.6%	3.4%	10.2%	6.7%	6.6%	17.5%	3.7%
6	6.0%	6.6%	7.8%	4.8%	7.5%	5.7%	1.7%	9.1%	7.2%	4.9%	4.4%	3.5%
7	2.0%	2.0%	3.1%	1.5%	2.5%	1.8%	.3%	3.6%	1.7%	2.5%	2.1%	1.2%
8	2.1%	2.6%	2.7%	1.5%	2.8%	1.8%	.5%	3.0%	2.6%	2.1%	1.0%	.9%
9	.2%	.0%	.5%	.2%	.4%	.1%	.0%	.4%	.2%	.3%	.0%	.6%
10	.9%	.6%	2.6%	.3%	.6%	1.4%	.0%	.7%	.4%	.3%	1.0%	8.0%
11+	2.0%	1.2%	5.7%	.6%	1.4%	3.0%	1.1%	2.0%	1.2%	2.7%	1.3%	7.4%
Number of surveys	3051	975	903	1173	1214	1564	522	1472	492	232	167	166



### What time did you leave from shore?

Figures are: Column percent Time	Total	Source of boater survey			Day of week		Lake class - 1998					
		Public access	Commercial access	Resident	Weekends	Weekdays	Mille Lacs	Large lakes	'A' lakes PA	'B' lakes PA	'C' lakes PA	All NPA lakes
Midnight - 6am	4.0%	11.0%	2.4%	1.1%	4.3%	4.2%	2.1%	5.3%	4.7%	4.7%	1.4%	1.1%
6am - noon	47.3%	54.5%	51.0%	41.7%	44.8%	44.3%	62.3%	46.3%	45.4%	41.7%	55.2%	30.1%
Noon - 6pm	38.2%	26.9%	40.4%	43.1%	40.2%	40.5%	22.9%	42.4%	40.8%	38.4%	26.1%	54.8%
6pm - midnight	10.5%	7.7%	6.3%	14.0%	10.7%	11.0%	12.7%	6.0%	9.1%	15.2%	17.3%	13.9%
Number of surveys	2791	869	810	1112	1115	1415	487	1324	468	213	152	147

### What time did you return to shore?

Figures are: Column percent Time	Total	Source of boater survey			Day of week		Lake class - 1998					
		Public access	Commercial access	Resident	Weekends	Weekdays	Mille Lacs	Large lakes	'A' lakes PA	'B' lakes PA	'C' lakes PA	All NPA lakes
Midnight - 6am	.6%	1.0%	.4%	.4%	.7%	.5%	.4%	.5%	.9%	.0%	.5%	.7%
6am - noon	9.5%	5.1%	9.0%	12.0%	9.6%	8.8%	10.5%	5.3%	12.1%	8.6%	8.6%	9.7%
Noon - 6pm	51.6%	55.8%	49.6%	50.3%	52.6%	51.3%	48.1%	57.7%	51.8%	46.8%	46.3%	50.9%
6pm - midnight	38.4%	38.1%	41.0%	37.3%	37.1%	39.4%	41.0%	36.5%	35.2%	44.6%	44.6%	38.7%
Number of surveys	2782	864	807	1111	1113	1408	485	1319	466	212	152	148

### Calculated hours on lake

Figures are: Column percent Hours	Total	Source of boater survey			Day of week		Lake class - 1998					
		Public access	Commercial access	Resident	Weekends	Weekdays	Mille Lacs	Large lakes	'A' lakes PA	'B' lakes PA	'C' lakes PA	All NPA lakes
Mean	5.1	7.1	5.4	3.9	4.8	5.0	6.1	5.3	4.8	5.0	5.9	3.4
Median	4.0	6.0	4.0	3.0	3.0	4.0	5.0	4.0	3.0	4.0	4.0	2.0
Minimum	.1	.1	.5	1.0	.3	.1	1.0	.2	.3	.3	.1	.5
Maximum	20.0	20.0	19.0	18.0	19.0	20.0	19.0	20.0	19.0	16.0	18.0	18.0
Number of surveys	2742	855	805	1082	1097	1384	481	1305	456	209	148	143

### Calculated hours on lake

Figures are: Column percent Hours	Total	Source of boater survey			Day of week		Lake class - 1998					
		Public access	Commercial access	Resident	Weekends	Weekdays	Mille Lacs	Large lakes	'A' lakes PA	'B' lakes PA	'C' lakes PA	All NPA lakes
0.1 - 1.0	11.1%	2.9%	7.2%	17.3%	13.8%	10.5%	2.7%	8.2%	13.4%	9.7%	20.3%	27.5%
1.1 - 2.0	18.7%	6.3%	15.5%	26.9%	17.9%	22.4%	8.6%	16.1%	23.1%	18.1%	13.7%	35.2%
2.1 - 3.0	17.3%	11.0%	18.4%	20.2%	19.5%	15.8%	18.1%	17.1%	17.3%	21.4%	8.8%	13.2%
3.1 - 4.0	12.5%	12.6%	10.7%	13.2%	13.4%	11.7%	14.7%	15.5%	11.9%	9.3%	12.6%	5.9%
4.1 - 6.0	14.4%	20.2%	19.1%	9.0%	12.6%	14.8%	20.4%	17.6%	12.2%	13.0%	9.1%	5.6%
6.1 - 8.0	9.0%	18.4%	10.7%	3.2%	7.3%	9.1%	12.6%	8.9%	7.4%	12.9%	7.4%	2.5%
8.1+	16.9%	28.5%	18.4%	10.0%	15.5%	15.7%	22.9%	16.7%	14.7%	15.6%	28.1%	10.2%
Number of surveys	2742	855	805	1082	1097	1384	481	1305	456	209	148	143

### How many of the hours on this trip were spent on shore or tied up at a dock?

Figures are: Column percent Hours	Total	Source of boater survey			Day of week		Lake class - 1998					
		Public access	Commercial access	Resident	Weekends	Weekdays	Mille Lacs	Large lakes	'A' lakes PA	'B' lakes PA	'C' lakes PA	All NPA lakes
Mean	7.8	4.2	5.6	10.8	8.2	8.4	5.8	6.3	8.8	8.4	8.2	11.5
Median	2.0	1.0	1.0	8.0	2.0	2.0	1.0	1.0	3.0	3.0	2.0	10.0
Minimum	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Maximum	93.0	93.0	72.0	24.0	72.0	93.0	54.0	93.0	72.0	70.0	72.0	40.0
Number of surveys	2716	848	772	1096	1079	1381	490	1280	444	204	152	146

### How many of the hours on this trip were spent on shore or tied up at a dock?

Figures are: Column percent Hours	Total	Source of boater survey			Day of week		Lake class - 1998					
		Public access	Commercial access	Resident	Weekends	Weekdays	Mille Lacs	Large lakes	'A' lakes PA	'B' lakes PA	'C' lakes PA	All NPA lakes
0	33.7%	44.5%	44.6%	22.8%	29.0%	32.2%	48.8%	33.9%	30.1%	25.3%	37.0%	29.0%
1 - 2	20.1%	31.9%	27.8%	10.2%	22.5%	18.2%	14.1%	29.5%	18.0%	23.6%	17.4%	7.3%
3 - 4	7.3%	8.4%	9.9%	5.5%	6.4%	8.7%	4.5%	8.8%	6.8%	11.8%	3.3%	4.6%
5 - 10	10.3%	3.9%	4.3%	16.5%	11.2%	10.8%	10.4%	8.8%	11.6%	9.5%	9.3%	11.0%
11 - 20	10.3%	6.0%	4.1%	15.4%	12.3%	9.2%	11.6%	7.6%	9.9%	12.6%	9.4%	13.4%
21+	18.4%	5.4%	9.3%	29.6%	18.6%	20.9%	10.7%	11.4%	23.6%	17.1%	23.5%	34.7%
Number of surveys	2716	848	772	1096	1079	1381	490	1280	444	204	152	146

### What was your group's primary activity on the lake on this trip?

Figures are: Column percent Activity	Total	Source of boater survey			Day of week		Lake class - 1998					
		Public access	Commercial access	Resident	Weekends	Weekdays	Mille Lacs	Large lakes	'A' lakes PA	'B' lakes PA	'C' lakes PA	All NPA lakes
Fishing	47.9%	48.1%	51.1%	46.2%	41.3%	44.5%	87.3%	32.0%	40.7%	48.7%	47.0%	46.2%
Canoeing	1.3%	1.1%	.6%	1.8%	1.6%	1.3%	.3%	.8%	2.0%	1.0%	1.1%	2.8%
Sailing	1.1%	2.2%	.6%	.6%	1.4%	.9%	.3%	.9%	1.9%	.3%	1.7%	.4%
Jet skiing	1.6%	2.0%	2.0%	1.3%	1.6%	2.0%	.0%	2.9%	2.4%	.6%	.8%	.0%
Boat ride	37.6%	37.8%	35.0%	38.7%	41.9%	40.5%	8.7%	51.1%	41.1%	38.2%	40.5%	37.1%
Water skiing	5.1%	2.3%	3.6%	7.4%	6.1%	5.0%	1.5%	6.5%	6.5%	4.1%	5.5%	3.4%
Transport	2.0%	2.5%	1.2%	2.1%	2.6%	1.8%	.7%	2.6%	2.1%	2.5%	.4%	2.3%
Other	3.5%	4.0%	5.9%	1.9%	3.6%	4.0%	1.2%	3.3%	3.3%	4.5%	3.2%	7.9%
Number of surveys	3079	980	917	1182	1228	1577	520	1488	500	233	170	168

### While you were boating on this trip, did you pull your boat up on the beach?

Figures are: Column percent Answer	Total	Source of boater survey			Day of week		Lake class - 1998					
		Public access	Commercial access	Resident	Weekends	Weekdays	Mille Lacs	Large lakes	'A' lakes PA	'B' lakes PA	'C' lakes PA	All NPA lakes
Yes	18.2%	32.1%	19.8%	9.3%	18.3%	20.9%	6.5%	26.9%	17.2%	18.4%	20.5%	18.4%
No	81.8%	67.9%	80.2%	90.7%	81.7%	79.1%	93.5%	73.1%	82.8%	81.6%	79.5%	81.6%
Number of surveys	3050	968	907	1175	1218	1560	515	1472	498	232	167	166

**While you were boating on this trip, did you anchor or tie up with other boats into a raft?**

Figures are: Column percent Answer	Total	Source of boater survey			Day of week		Lake class - 1998					
		Public access	Commercial access	Resident	Weekends	Weekdays	Mille Lacs	Large lakes	'A' lakes PA	'B' lakes PA	'C' lakes PA	All NPA lakes
Yes	5.9%	6.4%	7.7%	4.8%	6.1%	6.2%	5.3%	5.3%	7.4%	4.2%	11.1%	2.6%
No	94.1%	93.6%	92.3%	95.2%	93.9%	93.8%	94.7%	94.7%	92.6%	95.8%	88.9%	97.4%
Number of surveys	3057	969	909	1179	1214	1568	520	1473	497	231	168	168

**Are there sufficient opportunities on the lake to:  
Beach your boat**

Figures are: Column percent Answer	Total	Source of boater survey			Day of week		Lake class - 1998					
		Public access	Commercial access	Resident	Weekends	Weekdays	Mille Lacs	Large lakes	'A' lakes PA	'B' lakes PA	'C' lakes PA	All NPA lakes
Yes	61.0%	56.9%	54.6%	66.8%	64.3%	60.3%	55.9%	66.6%	62.5%	54.7%	65.6%	57.0%
No	23.3%	20.7%	18.9%	27.1%	22.2%	25.6%	19.4%	18.5%	25.3%	28.8%	19.8%	28.7%
Don't know	15.7%	22.4%	26.5%	6.1%	13.5%	14.1%	24.7%	15.0%	12.2%	16.5%	14.7%	14.3%
Number of surveys	3001	968	900	1133	1195	1535	500	1464	484	228	164	161

**Are there sufficient opportunities on the lake to:  
Anchor or tie up with other boats into a raft**

Figures are: Column percent Answer	Total	Source of boater survey			Day of week		Lake class - 1998					
		Public access	Commercial access	Resident	Weekends	Weekdays	Mille Lacs	Large lakes	'A' lakes PA	'B' lakes PA	'C' lakes PA	All NPA lakes
Yes	50.2%	47.2%	45.9%	54.3%	55.1%	46.9%	45.0%	53.5%	52.8%	47.7%	52.7%	42.2%
No	20.5%	14.6%	15.1%	26.8%	18.7%	22.9%	22.7%	13.9%	21.2%	20.9%	20.2%	34.2%
Don't know	29.3%	38.2%	38.9%	18.9%	26.2%	30.2%	32.4%	32.6%	26.0%	31.4%	27.2%	23.6%
Number of surveys	2942	946	897	1099	1178	1495	485	1446	475	223	157	156

**Are there sufficient opportunities on the lake to:  
Use picnic areas or toilets at a public lakeshore wayside**

Figures are: Column percent Answer	Total	Source of boater survey			Day of week		Lake class - 1998					
		Public access	Commercial access	Resident	Weekends	Weekdays	Mille Lacs	Large lakes	'A' lakes PA	'B' lakes PA	'C' lakes PA	All NPA lakes
Yes	33.1%	46.0%	30.3%	26.7%	29.4%	32.2%	47.8%	39.6%	27.2%	29.0%	26.6%	19.8%
No	42.7%	29.3%	30.6%	57.4%	47.3%	43.2%	27.2%	36.7%	46.6%	46.7%	59.2%	59.7%
Don't know	24.2%	24.7%	39.1%	15.9%	23.3%	24.6%	25.0%	23.7%	26.2%	24.3%	14.2%	20.5%
Number of surveys	2971	966	904	1101	1181	1519	487	1460	481	228	159	156

**Are there sufficient opportunities on the lake to:  
Use restaurants**

Figures are: Column percent Answer	Total	Source of boater survey			Day of week		Lake class - 1998					
		Public access	Commercial access	Resident	Weekends	Weekdays	Mille Lacs	Large lakes	'A' lakes PA	'B' lakes PA	'C' lakes PA	All NPA lakes
Yes	59.4%	72.4%	70.9%	45.2%	56.6%	59.5%	72.1%	78.8%	54.3%	52.2%	26.8%	24.1%
No	29.5%	14.1%	15.5%	46.3%	33.1%	29.8%	13.2%	12.5%	33.7%	39.4%	63.5%	60.8%
Don't know	11.2%	13.5%	13.5%	8.5%	10.3%	10.7%	14.7%	8.6%	12.0%	8.4%	9.7%	15.1%
Number of surveys	2958	963	903	1092	1179	1509	486	1461	480	223	156	152

**Are there sufficient opportunities on the lake to:  
Purchase gasoline**

Figures are: Column percent Answer	Total	Source of boater survey			Day of week		Lake class - 1998					
		Public access	Commercial access	Resident	Weekends	Weekdays	Mille Lacs	Large lakes	'A' lakes PA	'B' lakes PA	'C' lakes PA	All NPA lakes
Yes	58.5%	69.9%	74.7%	42.8%	56.5%	58.6%	65.2%	75.9%	53.9%	56.9%	34.7%	23.8%
No	28.4%	12.2%	10.1%	48.2%	31.2%	29.4%	16.4%	13.0%	34.1%	33.1%	47.6%	58.6%
Don't know	13.1%	18.0%	15.2%	9.0%	12.3%	12.0%	18.4%	11.1%	12.0%	10.0%	17.7%	17.6%
Number of surveys	2966	963	906	1097	1180	1513	492	1461	480	225	156	152

**What type of boat did you use on this trip**

Figures are: Column percent Type	Total	Source of boater survey			Day of week		Lake class - 1998					
		Public access	Commercial access	Resident	Weekends	Weekdays	Mille Lacs	Large lakes	'A' lakes PA	'B' lakes PA	'C' lakes PA	All NPA lakes
Cruiser	4.6%	4.8%	10.4%	1.6%	3.6%	6.3%	3.0%	4.6%	2.2%	6.2%	9.5%	14.0%
Runabout	38.9%	39.5%	40.3%	37.8%	41.2%	36.4%	45.3%	48.3%	35.8%	33.0%	33.7%	23.6%
Fishing	34.7%	40.0%	30.1%	34.1%	31.4%	33.2%	49.1%	23.9%	33.0%	39.1%	32.8%	39.0%
Jetski	1.8%	2.2%	2.3%	1.3%	1.9%	2.0%	.0%	2.9%	2.6%	.9%	.4%	.6%
Pontoon	15.0%	6.2%	13.0%	21.1%	16.1%	16.9%	1.4%	15.1%	19.4%	16.2%	18.6%	18.5%
Sailboat	1.0%	2.5%	.6%	.5%	1.3%	1.0%	.3%	.8%	2.1%	.0%	2.1%	.0%
Canoe/Kayak	1.9%	1.4%	1.1%	2.7%	2.3%	2.0%	.2%	1.2%	3.2%	1.7%	1.6%	2.8%
Other	2.1%	3.5%	2.3%	1.1%	2.2%	2.3%	.7%	3.2%	1.7%	3.0%	1.4%	1.6%
Number of surveys	3061	976	904	1181	1216	1572	520	1476	499	232	169	165

### What is the length of that boat?

Figures are: Column percent Feet	Total	Source of boater survey			Day of week		Lake class - 1998					
		Public access	Commercial access	Resident	Weekends	Weekdays	Mille Lacs	Large lakes	'A' lakes PA	'B' lakes PA	'C' lakes PA	All NPA lakes
Mean	17.9	18.0	18.7	17.4	17.7	18.2	17.4	18.2	17.7	17.5	17.7	19.5
Median	17.0	17.0	18.0	17.0	17.0	17.0	17.0	18.0	17.0	17.0	17.0	16.0
Minimum	4.0	5.0	4.0	6.0	5.0	4.0	11.0	4.0	5.0	8.0	8.0	6.0
Maximum	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	37.0	28.0	50.0
Number of surveys	2940	939	855	1146	1167	1501	512	1412	473	222	156	165

### What is the length of that boat?

Figures are: Column percent Feet	Total	Source of boater survey			Day of week		Lake class - 1998					
		Public access	Commercial access	Resident	Weekends	Weekdays	Mille Lacs	Large lakes	'A' lakes PA	'B' lakes PA	'C' lakes PA	All NPA lakes
1 - 12	3.9%	3.6%	4.8%	3.5%	4.2%	4.2%	.8%	4.1%	4.7%	3.3%	3.6%	7.5%
13 - 14	11.0%	7.1%	7.7%	14.9%	12.0%	11.8%	4.4%	7.4%	11.9%	15.2%	14.6%	23.0%
15 - 16	26.7%	26.1%	24.3%	28.3%	24.3%	27.8%	32.1%	20.3%	28.8%	29.5%	19.5%	24.2%
17 - 20	43.7%	49.0%	43.2%	40.9%	44.1%	39.4%	57.5%	49.7%	38.9%	38.5%	44.9%	25.1%
21 - 25	11.2%	9.0%	13.5%	11.2%	12.6%	11.7%	4.6%	15.9%	11.8%	10.8%	15.8%	6.1%
26+	3.5%	5.2%	6.4%	1.2%	2.7%	5.2%	.5%	2.6%	3.9%	2.8%	1.7%	14.0%
Number of surveys	2940	939	855	1146	1167	1501	512	1412	473	222	156	165



### What type of motor does that boat have?

Figures are: Column percent Type	Total	Source of boater survey			Day of week		Lake class - 1998					
		Public access	Commercial access	Resident	Weekends	Weekdays	Mille Lacs	Large lakes	'A' lakes PA	'B' lakes PA	'C' lakes PA	All NPA lakes
Gas	94.8%	94.8%	96.0%	94.1%	94.5%	93.9%	98.5%	95.5%	92.1%	95.4%	95.4%	94.9%
Electric	.4%	.7%	.1%	.5%	.5%	.5%	.2%	.1%	.4%	1.2%	.0%	.6%
No motor	3.5%	3.5%	2.1%	4.3%	4.0%	3.8%	.9%	2.6%	5.5%	2.8%	3.7%	4.1%
Don't know	1.3%	1.1%	1.9%	1.1%	1.0%	1.9%	.4%	1.7%	2.0%	.6%	.9%	.4%
Number of surveys	3036	965	894	1177	1206	1555	520	1458	493	230	168	167

### Horsepower for gas motor #1

Figures are: Column percent Horsepower	Total	Source of boater survey			Day of week		Lake class - 1998					
		Public access	Commercial access	Resident	Weekends	Weekdays	Mille Lacs	Large lakes	'A' lakes PA	'B' lakes PA	'C' lakes PA	All NPA lakes
Mean	92.7	114.2	101.0	77.0	94.2	93.1	89.0	115.5	86.6	89.8	108.2	50.0
Median	70.0	90.0	85.0	55.0	70.0	70.0	75.0	90.0	65.0	60.0	70.0	35.0
Minimum	2.0	3.0	2.0	2.0	2.0	2.0	3.0	2.0	4.0	6.0	2.0	2.0
Maximum	830.0	830.0	800.0	360.0	700.0	830.0	360.0	830.0	700.0	450.0	425.0	175.0
Number of surveys	2548	822	707	1019	984	1303	479	1196	405	194	136	138

### Horsepower for gas motor #1

Figures are: Column percent Horsepower	Total	Source of boater survey			Day of week		Lake class - 1998					
		Public access	Commercial access	Resident	Weekends	Weekdays	Mille Lacs	Large lakes	'A' lakes PA	'B' lakes PA	'C' lakes PA	All NPA lakes
1 - 11	8.0%	2.3%	5.7%	12.3%	7.6%	10.3%	2.5%	5.0%	9.5%	8.0%	14.1%	21.9%
11 - 20	5.9%	2.9%	6.2%	7.4%	5.3%	7.3%	3.2%	3.7%	7.2%	6.2%	4.3%	14.0%
21 - 50	27.2%	23.1%	25.7%	30.2%	27.0%	27.4%	24.8%	20.2%	27.7%	34.8%	26.1%	39.1%
51 - 100	24.4%	25.4%	24.2%	23.9%	23.7%	20.9%	37.9%	23.4%	24.1%	19.7%	16.1%	9.6%
101 - 150	18.1%	24.6%	21.5%	12.9%	19.5%	15.5%	21.6%	21.8%	17.2%	15.5%	17.7%	6.3%
151+	16.4%	21.8%	16.7%	13.4%	16.9%	18.5%	10.1%	25.8%	14.4%	15.7%	21.8%	9.0%
Number of surveys	2548	822	707	1019	984	1303	479	1196	405	194	136	138

### What type of second motor (if applicable) does that boat have?

Figures are: Column percent Type	Total	Source of boater survey			Day of week		Lake class - 1998					
		Public access	Commercial access	Resident	Weekends	Weekdays	Mille Lacs	Large lakes	'A' lakes PA	'B' lakes PA	'C' lakes PA	All NPA lakes
Gas	11.2%	7.5%	12.4%	13.0%	8.8%	11.7%	24.7%	9.7%	8.2%	6.0%	4.4%	7.4%
Electric	41.2%	48.2%	40.8%	36.9%	38.7%	36.6%	54.8%	34.3%	36.3%	42.6%	50.5%	39.0%
No motor	43.4%	37.9%	42.4%	47.5%	48.2%	46.6%	19.0%	51.7%	50.4%	44.5%	40.6%	52.1%
Don't know	4.2%	6.4%	4.4%	2.7%	4.3%	5.1%	1.4%	4.3%	5.1%	6.9%	4.5%	1.5%
Number of surveys	2265	770	663	832	886	1112	471	1031	356	169	117	121

### Horsepower for gas motor #2

Figures are: Column percent Horsepower	Total	Source of boater survey			Day of week		Lake class - 1998					
		Public access	Commercial access	Resident	Weekends	Weekdays	Mille Lacs	Large lakes	'A' lakes PA	'B' lakes PA	'C' lakes PA	All NPA lakes
Mean	22.4	23.7	24.0	21.2	30.0	21.0	14.3	42.1	22.6	7.4	33.9	49.6
Median	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	6.0	15.0	15.0
Minimum	1.0	1.0	5.0	2.0	2.0	1.0	2.0	1.0	3.0	3.0	6.0	4.0
Maximum	360.0	360.0	205.0	350.0	350.0	360.0	120.0	360.0	150.0	20.0	165.0	175.0
Number of surveys	248	66	69	113	82	118	112	84	27	7	6	12

### Horsepower for gas motor #2

Figures are: Column percent Horsepower	Total	Source of boater survey			Day of week		Lake class - 1998					
		Public access	Commercial access	Resident	Weekends	Weekdays	Mille Lacs	Large lakes	'A' lakes PA	'B' lakes PA	'C' lakes PA	All NPA lakes
1 - 11	65.1%	78.4%	66.8%	59.6%	57.1%	69.2%	66.2%	62.6%	61.9%	90.6%	44.7%	44.3%
11 - 20	19.7%	13.9%	18.1%	22.5%	20.8%	14.8%	27.2%	16.7%	11.5%	9.4%	40.4%	13.8%
21 - 50	8.2%	.7%	6.0%	11.9%	12.4%	8.9%	3.8%	6.3%	19.0%	.0%	.0%	15.2%
51 - 100	1.2%	.0%	.0%	2.3%	1.5%	1.6%	.9%	1.8%	.0%	.0%	.0%	9.9%
101 - 150	3.0%	.0%	8.6%	1.1%	4.0%	2.4%	1.8%	1.8%	7.6%	.0%	.0%	.0%
151+	2.9%	6.9%	.5%	2.7%	4.3%	3.2%	.0%	10.9%	.0%	.0%	14.9%	16.8%
Number of surveys	248	66	69	113	82	118	112	84	27	7	6	12

### Which of the following do you have on your boat?

Figures are: Column percent Equipment	Total	Source of boater survey			Day of week		Lake class - 1998					
		Public access	Commercial access	Resident	Weekends	Weekdays	Mille Lacs	Large lakes	'A' lakes PA	'B' lakes PA	'C' lakes PA	All NPA lakes
Fire extinguisher	70.1%	79.8%	76.4%	61.3%	70.0%	67.8%	79.2%	78.4%	65.0%	67.9%	65.1%	54.6%
Visual signal	16.9%	18.8%	23.0%	12.8%	13.8%	19.1%	22.4%	17.0%	12.9%	18.3%	18.0%	20.6%
Horn	60.6%	69.1%	65.2%	53.2%	61.7%	57.4%	65.8%	71.6%	57.9%	53.9%	55.7%	41.8%
Lights	82.8%	88.3%	81.6%	80.2%	83.3%	79.3%	94.2%	86.7%	79.2%	83.5%	74.7%	64.9%
No safety equipment	11.5%	6.3%	8.8%	15.9%	11.8%	13.3%	3.0%	7.3%	14.9%	10.3%	21.2%	24.8%
Don't know	1.9%	1.9%	4.3%	.6%	1.3%	2.7%	1.1%	2.2%	2.4%	1.8%	.9%	.4%
Number of surveys	3040	970	901	1169	1210	1556	520	1468	493	231	167	161

### Which of the following beverages did you have with you on the boat on this trip?

Figures are: Column percent Beverage	Total	Source of boater survey			Day of week		Lake class - 1998					
		Public access	Commercial access	Resident	Weekends	Weekdays	Mille Lacs	Large lakes	'A' lakes PA	'B' lakes PA	'C' lakes PA	All NPA lakes
Soft drinks	67.5%	79.2%	77.7%	55.5%	65.6%	64.9%	80.5%	73.4%	63.3%	64.1%	67.3%	46.5%
Coffee/tea/water	26.7%	36.5%	32.1%	18.1%	24.0%	25.8%	38.0%	27.9%	23.9%	24.4%	24.5%	17.5%
Other nonalcoholic	6.9%	9.0%	12.9%	2.6%	6.8%	7.5%	3.5%	7.3%	6.5%	10.2%	4.7%	9.5%
Beer	23.2%	30.5%	33.0%	13.9%	20.3%	25.2%	22.4%	30.2%	19.3%	27.6%	15.6%	16.8%
Wine	1.7%	1.8%	3.6%	.6%	1.4%	2.3%	.1%	2.5%	1.2%	3.2%	1.0%	1.4%
Other alcoholic	3.4%	3.8%	6.9%	1.4%	2.6%	4.6%	.9%	4.4%	3.0%	6.7%	1.1%	2.6%
No drinks	23.8%	10.9%	15.8%	35.4%	24.5%	27.3%	11.3%	18.7%	27.3%	28.2%	25.3%	41.0%
Refused to answer	.1%	.0%	.0%	.2%	.2%	.1%	.0%	.0%	.2%	.0%	.0%	.4%
Don't know	.2%	.0%	.1%	.4%	.0%	.5%	.2%	.1%	.4%	.0%	1.0%	.0%
Number of surveys	3055	979	906	1170	1210	1571	516	1475	495	234	170	165

**Overall, how satisfied or dissatisfied were you with your boating experience on this trip?**

Figures are: Column percent Rating	Total	Source of boater survey			Day of week		Lake class - 1998					
		Public access	Commercial access	Resident	Weekends	Weekdays	Mille Lacs	Large lakes	'A' lakes PA	'B' lakes PA	'C' lakes PA	All NPA lakes
Very satisfied	50.5%	45.0%	44.7%	56.7%	52.3%	53.3%	32.6%	57.2%	57.0%	46.0%	50.7%	45.9%
Satisfied	39.2%	43.9%	46.4%	32.9%	38.0%	38.1%	48.9%	34.8%	33.6%	47.5%	40.3%	41.5%
Dissatisfied	7.8%	9.1%	6.9%	7.5%	7.6%	6.6%	12.8%	6.0%	7.7%	5.0%	5.4%	10.7%
Very dissatisfied	2.0%	2.0%	1.7%	2.1%	1.5%	1.7%	4.9%	1.7%	1.4%	1.1%	1.4%	1.3%
Don't know	.5%	.0%	.3%	.8%	.7%	.3%	.9%	.3%	.2%	.4%	2.2%	.6%
Number of surveys	3047	969	908	1170	1216	1557	516	1474	493	234	167	163

**While you were on the lake on this trip, did you see an enforcement officer?**

Figures are: Column percent Answer	Total	Source of boater survey			Day of week		Lake class - 1998					
		Public access	Commercial access	Resident	Weekends	Weekdays	Mille Lacs	Large lakes	'A' lakes PA	'B' lakes PA	'C' lakes PA	All NPA lakes
Yes	21.3%	42.0%	25.0%	7.3%	18.3%	20.5%	24.7%	33.8%	16.5%	20.3%	9.5%	4.2%
No	73.8%	52.8%	70.5%	87.6%	76.0%	74.8%	71.5%	62.3%	78.4%	70.6%	86.6%	93.7%
Don't know	4.9%	5.2%	4.5%	5.0%	5.7%	4.8%	3.8%	3.9%	5.0%	9.2%	3.9%	2.1%
Number of surveys	3055	973	909	1173	1212	1571	517	1480	495	232	170	161

**Were you checked by an enforcement officer on this trip?**

Figures are: Column percent Answer	Total	Source of boater survey			Day of week		Lake class - 1998					
		Public access	Commercial access	Resident	Weekends	Weekdays	Mille Lacs	Large lakes	'A' lakes PA	'B' lakes PA	'C' lakes PA	All NPA lakes
Yes	5.4%	8.6%	8.8%	1.8%	2.6%	4.1%	16.1%	4.7%	3.3%	2.6%	2.9%	1.5%
No	94.6%	91.4%	91.2%	98.2%	97.4%	95.9%	83.9%	95.3%	96.7%	97.4%	97.1%	98.5%
Number of surveys	3046	969	910	1167	1210	1565	513	1476	494	231	168	164

**On this trip, did you travel through any parts of the lake where you thought there were too many boats?**

Figures are: Column percent Answer	Total	Source of boater survey			Day of week		Lake class - 1998					
		Public access	Commercial access	Resident	Weekends	Weekdays	Mille Lacs	Large lakes	'A' lakes PA	'B' lakes PA	'C' lakes PA	All NPA lakes
Yes	14.3%	23.9%	15.5%	8.0%	16.1%	13.2%	9.3%	22.8%	12.0%	17.3%	9.9%	4.7%
No	83.7%	73.5%	83.3%	89.9%	81.1%	85.2%	89.9%	75.7%	86.2%	78.5%	85.6%	94.2%
Don't know	2.0%	2.6%	1.3%	2.1%	2.8%	1.6%	.8%	1.5%	1.8%	4.2%	4.5%	1.1%
Number of surveys	3043	967	908	1168	1210	1562	515	1473	495	229	169	162

**How does the number of boats you encountered on this trip compare to the number of boats you have seen on other trips on this same part of the lake?**

Figures are: Column percent Number	Total	Source of boater survey			Day of week		Lake class - 1998					
		Public access	Commercial access	Resident	Weekends	Weekdays	Mille Lacs	Large lakes	'A' lakes PA	'B' lakes PA	'C' lakes PA	All NPA lakes
Substantially fewer	14.9%	13.9%	13.8%	16.1%	9.9%	15.1%	35.1%	11.1%	12.9%	7.9%	9.5%	10.4%
Slightly fewer	13.8%	15.4%	13.1%	13.2%	13.6%	13.2%	17.6%	12.8%	12.0%	12.5%	24.3%	13.1%
About the same	43.1%	36.5%	41.3%	47.8%	45.9%	43.1%	33.6%	38.9%	46.1%	49.1%	42.9%	51.5%
Slightly more	11.4%	12.4%	11.0%	11.0%	12.6%	11.4%	6.2%	15.4%	11.2%	11.9%	11.2%	10.3%
Substantially more	8.3%	10.3%	6.2%	8.2%	10.5%	7.4%	2.8%	10.7%	9.9%	9.6%	6.4%	3.0%
Don't know	3.8%	4.2%	3.6%	3.5%	3.4%	4.5%	2.2%	5.0%	3.5%	4.1%	3.5%	3.4%
Not here before	4.7%	7.2%	11.0%	.1%	4.1%	5.4%	2.5%	6.0%	4.4%	4.9%	2.1%	8.3%
Number of surveys	3027	959	898	1170	1203	1553	512	1461	491	230	167	166

**From a safety standpoint, how did you feel about the number of boats on the lake on this trip?**

Figures are: Column percent Number	Total	Source of boater survey			Day of week		Lake class - 1998					
		Public access	Commercial access	Resident	Weekends	Weekdays	Mille Lacs	Large lakes	'A' lakes PA	'B' lakes PA	'C' lakes PA	All NPA lakes
Few boats	23.3%	17.2%	21.4%	27.9%	19.4%	23.2%	38.9%	14.7%	22.6%	18.5%	26.0%	28.9%
About right	58.6%	56.5%	63.1%	57.6%	59.3%	60.6%	48.9%	60.2%	58.8%	62.4%	62.2%	64.5%
Crowded	13.4%	20.8%	12.0%	9.9%	15.9%	12.0%	8.5%	19.9%	13.3%	14.4%	9.3%	4.4%
Far too crowded	1.5%	2.0%	.9%	1.6%	1.8%	1.6%	.5%	2.6%	1.6%	1.3%	1.4%	.8%
Don't know	3.1%	3.5%	2.7%	3.0%	3.6%	2.6%	3.2%	2.6%	3.7%	3.5%	1.1%	1.4%
Number of surveys	3033	963	902	1168	1209	1551	515	1466	493	231	165	163

**Again, from a safety standpoint, how do you feel about the number of boats that are "usually" on this lake?**

Figures are: Column percent Number	Total	Source of boater survey			Day of week		Lake class - 1998					
		Public access	Commercial access	Resident	Weekends	Weekdays	Mille Lacs	Large lakes	'A' lakes PA	'B' lakes PA	'C' lakes PA	All NPA lakes
Few boats	8.8%	4.4%	7.4%	12.1%	8.9%	9.0%	7.5%	4.9%	8.6%	10.6%	12.6%	19.7%
About right	64.4%	59.9%	62.9%	67.9%	65.1%	63.8%	64.2%	60.4%	66.5%	65.9%	64.3%	64.8%
Crowded	17.1%	21.2%	15.6%	15.5%	17.5%	16.6%	17.8%	21.5%	16.4%	17.2%	15.9%	4.9%
Far too crowded	1.9%	1.6%	1.0%	2.5%	1.4%	2.6%	2.8%	3.3%	1.3%	.2%	2.4%	.8%
Don't know	7.8%	13.0%	13.1%	2.1%	7.1%	8.0%	7.7%	9.9%	7.1%	6.1%	4.8%	9.8%
Number of surveys	3035	969	904	1162	1207	1554	511	1465	498	230	167	164

**Would you boat again if you knew there were going to be about the same number of boats as on this trip?**

Figures are: Column percent Answer	Total	Source of boater survey			Day of week		Lake class - 1998					
		Public access	Commercial access	Resident	Weekends	Weekdays	Mille Lacs	Large lakes	'A' lakes PA	'B' lakes PA	'C' lakes PA	All NPA lakes
Yes	94.9%	91.7%	96.4%	95.9%	93.7%	95.8%	96.1%	94.5%	95.1%	91.4%	96.2%	98.5%
No	2.1%	2.8%	1.8%	1.9%	2.4%	1.9%	2.4%	2.9%	2.0%	1.7%	2.5%	.6%
Don't know	3.0%	5.5%	1.8%	2.2%	4.0%	2.3%	1.5%	2.6%	3.0%	6.8%	1.3%	.9%
Number of surveys	3050	974	908	1168	1210	1567	514	1477	497	231	167	164

**Based on your experience on this trip, how much of a problem is each of the following on this lake?**  
**Careless or inconsiderate operation of boats**

Figures are: Column percent Rating	Total	Source of boater survey			Day of week		Lake class - 1998					
		Public access	Commercial access	Resident	Weekends	Weekdays	Mille Lacs	Large lakes	'A' lakes PA	'B' lakes PA	'C' lakes PA	All NPA lakes
Not a problem	55.9%	53.7%	54.3%	57.9%	52.7%	57.6%	59.9%	50.3%	54.0%	59.7%	62.1%	62.8%
Slight problem	25.5%	25.7%	23.0%	26.8%	27.8%	24.2%	24.0%	27.4%	27.1%	25.2%	16.4%	21.3%
Moderate problem	10.7%	9.9%	13.7%	9.7%	11.0%	10.4%	10.9%	13.5%	10.6%	6.5%	9.3%	11.3%
Serious problem	4.6%	4.9%	5.9%	3.7%	5.3%	4.5%	2.4%	6.3%	4.5%	4.8%	10.1%	.6%
Very serious problem	1.2%	2.3%	.8%	.8%	1.0%	1.5%	1.1%	1.1%	1.1%	1.8%	1.7%	1.5%
Don't know	2.0%	3.4%	2.3%	1.1%	2.3%	1.9%	1.7%	1.3%	2.8%	2.0%	.4%	2.5%
Number of surveys	3022	965	906	1151	1202	1546	511	1468	486	228	166	163



**Based on your experience on this trip, how much of a problem is each of the following on this lake?**  
**Boat operators who have been drinking too much**

Figures are: Column percent Rating	Total	Source of boater survey			Day of week		Lake class - 1998					
		Public access	Commercial access	Resident	Weekends	Weekdays	Mille Lacs	Large lakes	'A' lakes PA	'B' lakes PA	'C' lakes PA	All NPA lakes
Not a problem	60.8%	57.2%	63.2%	61.8%	57.5%	61.4%	66.5%	52.6%	60.8%	63.0%	59.5%	72.0%
Slight problem	10.5%	13.8%	9.2%	9.1%	11.5%	8.9%	13.4%	12.9%	9.6%	7.0%	13.8%	5.1%
Moderate problem	5.0%	4.8%	7.1%	4.0%	4.4%	6.1%	5.3%	5.7%	4.5%	7.0%	1.8%	1.8%
Serious problem	1.8%	3.5%	1.0%	1.2%	2.7%	1.1%	1.6%	2.9%	1.2%	.4%	8.7%	.0%
Very serious problem	.7%	1.2%	.6%	.5%	.4%	1.2%	.4%	1.8%	.3%	.6%	.6%	.0%
Don't know	21.2%	19.5%	18.9%	23.4%	23.6%	21.3%	12.8%	24.0%	23.6%	22.1%	15.7%	21.1%
Number of surveys	3018	965	907	1146	1201	1543	510	1465	488	228	167	160

**Based on your experience on this trip, how much of a problem is each of the following on this lake?**  
**The amount of noise from boats on the lake**

Figures are: Column percent Rating	Total	Source of boater survey			Day of week		Lake class - 1998					
		Public access	Commercial access	Resident	Weekends	Weekdays	Mille Lacs	Large lakes	'A' lakes PA	'B' lakes PA	'C' lakes PA	All NPA lakes
Not a problem	59.5%	61.8%	63.4%	56.2%	56.5%	56.7%	79.1%	53.6%	56.1%	56.9%	61.8%	56.4%
Slight problem	20.2%	17.0%	20.6%	21.9%	20.5%	22.6%	11.6%	21.1%	19.7%	23.8%	23.0%	30.7%
Moderate problem	12.6%	12.4%	10.9%	13.5%	14.6%	12.4%	6.7%	13.8%	14.5%	14.4%	11.2%	9.3%
Serious problem	4.3%	4.5%	1.5%	5.7%	5.4%	4.1%	.7%	7.7%	5.6%	1.8%	1.7%	1.9%
Very serious problem	2.0%	2.0%	2.1%	2.0%	1.9%	2.6%	.8%	2.5%	2.3%	2.4%	2.0%	.9%
Don't know	1.3%	2.2%	1.5%	.7%	1.0%	1.7%	1.1%	1.4%	1.8%	.7%	.3%	.8%
Number of surveys	3032	965	909	1158	1207	1552	510	1469	492	228	169	164

**Based on your experience on this trip, how much of a problem is each of the following on this lake?**  
**Near miss or collision**

Figures are: Column percent Rating	Total	Source of boater survey			Day of week		Lake class - 1998					
		Public access	Commercial access	Resident	Weekends	Weekdays	Mille Lacs	Large lakes	'A' lakes PA	'B' lakes PA	'C' lakes PA	All NPA lakes
Not a problem	81.0%	79.4%	80.0%	82.5%	80.2%	80.9%	82.5%	75.8%	81.2%	86.2%	81.6%	82.7%
Slight problem	8.0%	8.2%	8.4%	7.7%	7.9%	7.8%	10.0%	11.4%	6.7%	5.5%	5.3%	5.9%
Moderate problem	4.5%	4.8%	6.2%	3.3%	4.8%	4.7%	2.7%	4.6%	4.6%	2.7%	8.9%	7.8%
Serious problem	1.1%	.7%	1.3%	1.3%	1.4%	.9%	1.4%	1.8%	1.2%	.4%	.3%	.0%
Very serious problem	.6%	.8%	.4%	.6%	.8%	.4%	.4%	.9%	.9%	.0%	.0%	.0%
Don't know	4.8%	6.2%	3.6%	4.6%	4.8%	5.3%	2.9%	5.5%	5.5%	5.1%	3.9%	3.6%
Number of surveys	3016	959	904	1153	1201	1541	510	1461	487	228	166	164

**Based on your experience on this trip, how much of a problem is each of the following on this lake?**  
**High wakes**

Figures are: Column percent Rating	Total	Source of boater survey			Day of week		Lake class - 1998					
		Public access	Commercial access	Resident	Weekends	Weekdays	Mille Lacs	Large lakes	'A' lakes PA	'B' lakes PA	'C' lakes PA	All NPA lakes
Not a problem	60.5%	58.3%	56.6%	63.7%	59.9%	59.3%	66.8%	53.8%	62.3%	63.5%	55.3%	55.8%
Slight problem	22.8%	24.2%	25.1%	20.9%	23.6%	22.4%	20.9%	25.3%	21.9%	22.8%	22.4%	23.9%
Moderate problem	10.9%	9.6%	13.7%	10.3%	10.7%	12.0%	9.1%	13.1%	9.3%	8.5%	17.0%	17.3%
Serious problem	2.7%	2.8%	2.3%	2.8%	2.4%	3.0%	1.8%	3.5%	2.9%	1.8%	4.0%	1.3%
Very serious problem	2.0%	3.3%	1.2%	1.6%	2.4%	1.9%	.7%	2.6%	2.3%	2.6%	1.3%	.0%
Don't know	1.2%	1.8%	1.2%	.8%	1.1%	1.4%	.8%	1.7%	1.2%	.7%	.0%	1.6%
Number of surveys	3023	965	906	1152	1201	1550	509	1466	491	227	167	163

**Based on your experience on this trip, how much of a problem is each of the following on this lake?**

**Use of personal watercraft (jet ski)**

Figures are: Column percent Rating	Total	Source of boater survey			Day of week		Lake class - 1998					
		Public access	Commercial access	Resident	Weekends	Weekdays	Mille Lacs	Large lakes	'A' lakes PA	'B' lakes PA	'C' lakes PA	All NPA lakes
Not a problem	42.0%	49.8%	48.0%	34.3%	40.3%	37.4%	56.1%	39.9%	36.1%	45.2%	42.2%	38.4%
Slight problem	21.5%	20.2%	19.4%	23.3%	21.9%	23.0%	14.8%	20.9%	24.0%	26.2%	21.1%	16.9%
Moderate problem	17.4%	12.9%	16.9%	20.2%	17.6%	19.6%	11.8%	17.2%	18.3%	15.3%	22.2%	27.0%
Serious problem	9.7%	7.3%	9.3%	11.2%	10.6%	10.2%	6.2%	10.5%	11.6%	6.9%	8.1%	11.9%
Very serious problem	8.2%	7.8%	5.0%	10.2%	9.0%	8.4%	7.8%	10.5%	8.9%	5.7%	6.4%	4.9%
Don't know	1.3%	2.0%	1.4%	.8%	.7%	1.4%	3.2%	1.0%	1.0%	.7%	.0%	.8%
Number of surveys	3039	969	907	1163	1210	1556	511	1472	493	230	170	163

**Based on your experience on this trip, how much of a problem is each of the following on this lake?**

**Large boats (boats over 24 feet)**

Figures are: Column percent Rating	Total	Source of boater survey			Day of week		Lake class - 1998					
		Public access	Commercial access	Resident	Weekends	Weekdays	Mille Lacs	Large lakes	'A' lakes PA	'B' lakes PA	'C' lakes PA	All NPA lakes
Not a problem	80.7%	73.0%	83.1%	84.0%	81.9%	78.0%	86.8%	72.4%	81.8%	83.1%	79.9%	84.8%
Slight problem	8.8%	11.8%	8.9%	7.0%	6.3%	11.4%	8.8%	11.7%	5.8%	10.2%	5.4%	12.9%
Moderate problem	5.2%	7.0%	4.5%	4.5%	5.7%	5.5%	2.3%	6.6%	6.9%	4.3%	4.1%	1.0%
Serious problem	1.6%	2.4%	1.3%	1.3%	2.2%	1.4%	.0%	4.2%	.6%	.5%	8.2%	.0%
Very serious problem	1.3%	2.6%	.7%	.9%	1.7%	1.2%	.3%	2.5%	1.5%	.9%	.4%	.0%
Don't know	2.4%	3.2%	1.5%	2.4%	2.4%	2.5%	1.8%	2.5%	3.5%	1.1%	1.9%	1.3%
Number of surveys	3020	964	904	1152	1200	1546	511	1464	488	229	165	163

**Based on your experience on this trip, how much of a problem is each of the following on this lake?**  
**Boats operating too fast, too close to shore/dock**

Figures are: Column percent Rating	Total	Source of boater survey			Day of week		Lake class - 1998					
		Public access	Commercial access	Resident	Weekends	Weekdays	Mille Lacs	Large lakes	'A' lakes PA	'B' lakes PA	'C' lakes PA	All NPA lakes
Not a problem	61.5%	64.9%	67.6%	56.5%	58.0%	60.7%	72.8%	55.1%	57.7%	66.5%	61.3%	65.9%
Slight problem	20.6%	19.4%	16.5%	23.3%	23.6%	19.3%	16.0%	22.5%	21.8%	20.9%	22.5%	16.3%
Moderate problem	9.1%	6.4%	8.9%	10.7%	9.0%	10.9%	5.6%	10.4%	9.1%	8.9%	9.0%	13.3%
Serious problem	4.2%	2.3%	3.7%	5.6%	4.5%	4.7%	1.6%	5.8%	6.2%	1.6%	3.3%	1.3%
Very serious problem	2.4%	2.8%	1.2%	2.7%	2.9%	2.4%	1.1%	4.0%	2.5%	1.0%	3.4%	1.5%
Don't know	2.2%	4.1%	2.1%	1.1%	2.0%	2.1%	2.9%	2.1%	2.8%	1.0%	.5%	1.6%
Number of surveys	3026	965	905	1156	1208	1546	511	1466	489	229	167	164

**Based on your experience on this trip, how much of a problem is each of the following on this lake?**  
**Boats not yielding the right of way**

Figures are: Column percent Rating	Total	Source of boater survey			Day of week		Lake class - 1998					
		Public access	Commercial access	Resident	Weekends	Weekdays	Mille Lacs	Large lakes	'A' lakes PA	'B' lakes PA	'C' lakes PA	All NPA lakes
Not a problem	68.4%	65.5%	70.0%	69.3%	67.7%	67.6%	69.5%	61.7%	67.3%	69.0%	81.0%	84.5%
Slight problem	18.9%	18.7%	19.1%	18.8%	18.5%	19.5%	19.0%	20.8%	18.0%	23.7%	8.9%	12.6%
Moderate problem	6.0%	7.0%	5.7%	5.6%	7.1%	5.4%	6.4%	9.0%	6.1%	2.8%	6.9%	1.2%
Serious problem	2.6%	2.5%	2.3%	2.7%	2.6%	3.0%	1.6%	3.2%	4.1%	.6%	1.1%	.0%
Very serious problem	1.5%	2.8%	.9%	1.1%	1.7%	1.6%	.5%	2.7%	1.4%	1.5%	.9%	1.0%
Don't know	2.6%	3.3%	2.0%	2.5%	2.5%	2.8%	3.0%	2.6%	3.1%	2.4%	1.2%	.8%
Number of surveys	3011	963	903	1145	1196	1541	509	1461	489	228	162	162

**Based on your experience on this trip, how much of a problem is each of the following on this lake?**

**Excessive speed in channels and crowded areas**

Figures are: Column percent Rating	Total	Source of boater survey			Day of week		Lake class - 1998					
		Public access	Commercial access	Resident	Weekends	Weekdays	Mille Lacs	Large lakes	'A' lakes PA	'B' lakes PA	'C' lakes PA	All NPA lakes
Not a problem	65.8%	65.6%	63.3%	67.2%	65.3%	63.3%	73.9%	59.8%	63.8%	65.1%	73.4%	73.2%
Slight problem	19.4%	20.5%	23.2%	16.7%	20.1%	19.9%	14.0%	22.4%	20.5%	20.8%	14.5%	15.4%
Moderate problem	6.7%	4.5%	6.0%	8.3%	6.8%	7.6%	4.7%	8.8%	6.2%	8.0%	5.5%	4.8%
Serious problem	3.2%	3.5%	3.4%	2.9%	3.3%	3.5%	1.3%	4.3%	3.7%	2.8%	3.9%	1.3%
Very serious problem	1.5%	2.1%	.6%	1.6%	1.7%	1.6%	.8%	2.6%	1.2%	1.0%	.9%	2.5%
Don't know	3.5%	3.8%	3.4%	3.3%	2.8%	4.1%	5.2%	2.0%	4.5%	2.3%	1.7%	2.9%
Number of surveys	3019	962	904	1153	1201	1544	512	1465	487	226	166	163

**Based on your experience on this trip, how much of a problem is each of the following on this lake?**

**Excessive speed in open water**

Figures are: Column percent Rating	Total	Source of boater survey			Day of week		Lake class - 1998					
		Public access	Commercial access	Resident	Weekends	Weekdays	Mille Lacs	Large lakes	'A' lakes PA	'B' lakes PA	'C' lakes PA	All NPA lakes
Not a problem	68.4%	68.9%	73.3%	65.7%	66.2%	66.5%	83.1%	64.4%	63.8%	73.7%	61.9%	65.3%
Slight problem	16.5%	17.4%	12.4%	18.2%	18.2%	17.3%	8.1%	17.0%	19.2%	14.3%	25.7%	19.4%
Moderate problem	8.0%	5.0%	8.2%	9.7%	8.3%	9.1%	3.8%	8.5%	9.7%	7.2%	6.1%	11.1%
Serious problem	2.5%	2.3%	1.8%	3.0%	3.1%	2.2%	1.3%	4.8%	1.9%	1.6%	3.0%	1.9%
Very serious problem	2.2%	2.2%	2.3%	2.1%	2.4%	2.4%	.6%	3.4%	3.0%	.7%	2.5%	.6%
Don't know	2.3%	4.2%	2.1%	1.4%	1.8%	2.5%	3.2%	2.0%	2.4%	2.6%	.7%	1.7%
Number of surveys	3005	964	903	1138	1191	1542	499	1465	487	229	163	162

### What special boating restriction are there for this lake?

Figures are: Column percent Restriction	Total	Source of boater survey			Day of week		Lake class - 1998					
		Public access	Commercial access	Resident	Weekends	Weekdays	Mille Lacs	Large lakes	'A' lakes PA	'B' lakes PA	'C' lakes PA	All NPA lakes
None	16.1%	9.4%	10.2%	22.9%	16.5%	15.7%	14.6%	9.5%	15.5%	18.5%	27.3%	32.0%
Boat type/size	.6%	.8%	.4%	.7%	.7%	.5%	.6%	1.1%	.4%	.0%	1.1%	1.4%
Time	13.2%	14.9%	15.7%	10.9%	10.4%	10.0%	34.9%	11.2%	10.1%	7.7%	4.6%	2.5%
Horsepower	.6%	.9%	.6%	.4%	.9%	.4%	.2%	1.1%	.7%	.0%	.7%	.6%
Speed/quiet waters	26.1%	33.5%	29.5%	20.2%	28.1%	27.8%	8.4%	42.8%	27.6%	27.5%	15.7%	7.8%
Area of lake	9.6%	10.7%	10.1%	8.7%	9.8%	10.9%	2.6%	14.0%	11.4%	10.2%	3.6%	4.5%
Remove exotics	56.6%	61.9%	59.0%	52.3%	55.5%	56.0%	62.5%	58.6%	57.1%	56.7%	42.8%	42.7%
Other	4.6%	3.9%	5.1%	4.7%	3.9%	5.0%	5.8%	4.9%	4.1%	4.7%	2.2%	4.8%
Don't know	23.9%	24.1%	29.3%	20.9%	23.9%	25.5%	20.9%	23.9%	23.6%	22.0%	30.3%	31.5%
Number of surveys	3012	949	904	1159	1201	1541	508	1457	487	229	167	164

### Overall, how do these restrictions affect your enjoyment of the lake?

Figures are: Column percent Affect	Total	Source of boater survey			Day of week		Lake class - 1998					
		Public access	Commercial access	Resident	Weekends	Weekdays	Mille Lacs	Large lakes	'A' lakes PA	'B' lakes PA	'C' lakes PA	All NPA lakes
Add to	27.8%	24.5%	24.4%	31.5%	29.4%	29.4%	15.8%	28.7%	31.5%	28.3%	34.3%	28.9%
Detract from	4.4%	6.1%	3.8%	3.6%	4.1%	4.1%	5.8%	5.5%	3.9%	2.8%	4.1%	2.1%
Neutral	67.9%	69.4%	71.8%	64.9%	66.5%	66.6%	78.4%	65.7%	64.5%	68.9%	61.6%	69.0%
Number of surveys	2837	918	852	1067	1122	1454	487	1388	462	208	151	141

**Overall, do you think special boating restrictions on this lake are:**

Figures are: Column percent Rating	Total	Source of boater survey			Day of week		Lake class - 1998					
		Public access	Commercial access	Resident	Weekends	Weekdays	Mille Lacs	Large lakes	'A' lakes PA	'B' lakes PA	'C' lakes PA	All NPA lakes
Too restrictive	2.5%	3.5%	2.6%	1.8%	1.9%	2.7%	3.4%	3.9%	2.0%	.6%	2.2%	2.0%
About right	59.7%	62.1%	56.5%	60.0%	60.9%	56.9%	65.2%	61.4%	58.8%	58.8%	64.2%	44.7%
Too easy	15.2%	11.2%	14.2%	18.1%	16.3%	16.4%	7.6%	14.7%	18.5%	13.8%	14.5%	20.9%
Don't know	22.7%	23.3%	26.8%	20.1%	21.0%	24.0%	23.9%	20.0%	20.7%	26.8%	19.1%	32.3%
Number of surveys	2897	941	862	1094	1157	1477	490	1413	473	218	151	152

**What special boating restriction are needed for this lake?**

Figures are: Column percent Restriction	Total	Source of boater survey			Day of week		Lake class - 1998					
		Public access	Commercial access	Resident	Weekends	Weekdays	Mille Lacs	Large lakes	'A' lakes PA	'B' lakes PA	'C' lakes PA	All NPA lakes
None	23.1%	24.8%	23.3%	22.1%	22.4%	21.7%	26.8%	19.9%	22.2%	25.9%	18.5%	26.8%
Boat type/size	5.6%	5.8%	3.0%	6.9%	5.9%	6.2%	1.4%	7.9%	6.5%	3.7%	9.3%	5.0%
Time	7.2%	5.0%	5.7%	9.3%	6.6%	8.0%	7.3%	6.0%	9.3%	5.8%	4.2%	6.4%
Horsepower	6.0%	5.0%	2.9%	8.1%	6.5%	6.4%	1.2%	7.8%	6.8%	3.6%	9.8%	9.5%
Speed/quiet waters	19.3%	22.1%	16.5%	19.2%	21.2%	20.0%	8.6%	26.5%	21.1%	15.5%	30.8%	12.0%
Area of lake	6.9%	7.4%	8.4%	6.0%	6.4%	8.2%	3.2%	7.8%	7.5%	6.3%	6.2%	11.8%
Personal watercraft	47.3%	37.1%	40.2%	56.5%	48.0%	50.2%	40.2%	45.3%	50.5%	52.7%	45.6%	43.6%
Remove exotics	35.4%	39.4%	36.2%	32.8%	36.8%	33.5%	37.5%	36.6%	35.7%	33.5%	37.7%	28.5%
Other	3.2%	3.0%	4.5%	2.6%	3.2%	3.1%	3.4%	4.1%	1.8%	5.8%	1.6%	2.0%
Don't know	10.1%	10.3%	17.3%	6.4%	8.4%	11.4%	10.8%	10.1%	9.2%	8.9%	6.4%	18.0%
Number of surveys	2870	908	840	1122	1141	1476	486	1370	465	225	163	161

### Have you taken a formal course in boating safety?

Figures are: Column percent Answer	Total	Source of boater survey			Day of week		Lake class - 1998					
		Public access	Commercial access	Resident	Weekends	Weekdays	Mille Lacs	Large lakes	'A' lakes PA	'B' lakes PA	'C' lakes PA	All NPA lakes
Yes	20.1%	24.4%	22.3%	16.4%	20.5%	19.5%	18.9%	22.9%	22.3%	18.4%	11.4%	11.3%
No	78.5%	73.3%	77.0%	82.4%	77.8%	79.4%	79.5%	76.1%	76.8%	78.6%	87.1%	87.4%
Don't know	1.4%	2.3%	.7%	1.2%	1.8%	1.0%	1.6%	1.0%	.9%	2.9%	1.5%	1.4%
Number of surveys	3008	960	896	1152	1199	1541	505	1459	489	230	164	161

### Should all boat operators (powered & unpowered) be required to complete a boating safety course?

Figures are: Column percent Answer	Total	Source of boater survey			Day of week		Lake class - 1998					
		Public access	Commercial access	Resident	Weekends	Weekdays	Mille Lacs	Large lakes	'A' lakes PA	'B' lakes PA	'C' lakes PA	All NPA lakes
Yes	38.6%	43.3%	40.9%	34.8%	39.1%	39.9%	31.4%	42.4%	43.9%	29.5%	40.7%	34.4%
No	40.4%	37.8%	43.0%	40.7%	39.1%	39.5%	47.9%	40.2%	35.2%	44.0%	42.8%	41.3%
Don't know	20.9%	19.0%	16.1%	24.5%	21.8%	20.6%	20.7%	17.4%	20.8%	26.5%	16.4%	24.3%
Number of surveys	2999	953	894	1152	1198	1535	503	1452	487	229	162	166

### Should all motorboat operators be required to obtain an operator's license?

Figures are: Column percent Answer	Total	Source of boater survey			Day of week		Lake class - 1998					
		Public access	Commercial access	Resident	Weekends	Weekdays	Mille Lacs	Large lakes	'A' lakes PA	'B' lakes PA	'C' lakes PA	All NPA lakes
Yes	26.9%	31.6%	28.3%	23.6%	27.3%	28.0%	23.0%	29.4%	29.4%	23.4%	27.2%	22.6%
No	54.4%	49.9%	54.3%	57.0%	54.4%	52.6%	60.0%	54.8%	52.2%	53.2%	63.0%	48.3%
Don't know	18.7%	18.5%	17.5%	19.4%	18.3%	19.4%	17.1%	15.8%	18.5%	23.3%	9.8%	29.1%
Number of surveys	2994	950	897	1147	1194	1533	502	1453	489	229	163	158



**(Mille Lacs Residents only)**

**In the last 12 months, how many days did you ice fish on Mille Lacs**

Figures are: Column percent Days	Mille Lacs Total	Day of week	
		Weekends	Weekdays
Mean	7.7	7.9	7.5
Median	1.0	2.0	.5
Minimum	.0	.0	.0
Maximum	75.0	75.0	60.0
Number of surveys	240	118	122

**(Mille Lacs Residents only)**

**In the last 12 months, how many days did you fish in open water on Mille Lacs**

Figures are: Column percent Days	Mille Lacs Total	Day of week	
		Weekends	Weekdays
Mean	21.4	24.4	19.4
Median	15.0	20.0	12.0
Minimum	.0	.0	.0
Maximum	150.0	150.0	90.0
Number of surveys	240	119	121

**(Mille Lacs Residents only)**

**In the last 12 months, how many days did you ice fish on Mille Lacs**

Figures are: Column percent Days	Mille Lacs Total	Day of week	
		Weekends	Weekdays
0	47.4%	43.2%	50.0%
1 - 5	20.7%	23.7%	18.9%
6 - 10	10.1%	11.9%	9.0%
11 - 20	8.2%	6.8%	9.0%
21+	13.6%	14.4%	13.1%
Number of surveys	240	118	122

**(Mille Lacs Residents only)**

**In the last 12 months, how many days did you fish in open water on Mille Lacs**

Figures are: Column percent Days	Mille Lacs Total	Day of week	
		Weekends	Weekdays
0	9.7%	6.7%	11.6%
1 - 5	19.0%	17.6%	19.8%
6 - 10	15.7%	11.8%	18.2%
11 - 20	20.5%	20.2%	20.7%
21 - 30	15.8%	18.5%	14.0%
31+	19.4%	25.2%	15.7%
Number of surveys	240	119	121

**(Mille Lacs Residents only)**

**In the last 12 months, how many times did you start  
a Mille Lacs boating trip from:  
Your own property?**

Figures are: Column percent Times	Mille Lacs Total	Day of week	
		Weekends	Weekdays
Mean	22.9	26.7	20.3
Median	15.0	20.0	12.0
Minimum	.0	.0	.0
Maximum	150.0	150.0	150.0
Number of surveys	216	110	106

**(Mille Lacs Residents only)**

**In the last 12 months, how many times did you start  
a Mille Lacs boating trip from:  
A friend's property (not a commercial site)?**

Figures are: Column percent Times	Mille Lacs Total	Day of week	
		Weekends	Weekdays
Mean	3.5	.8	4.7
Median	.0	.0	.0
Minimum	.0	.0	.0
Maximum	50.0	5.0	50.0
Number of surveys	66	26	40

**(Mille Lacs Residents only)**

**In the last 12 months, how many times did  
you start a Mille Lacs boating trip from:  
Your own property?**

Figures are: Column percent Times	Mille Lacs Total	Day of week	
		Weekends	Weekdays
0	7.7%	3.6%	10.4%
1 - 5	19.5%	19.1%	19.8%
6 - 10	13.9%	13.6%	14.2%
11 - 20	24.2%	20.9%	26.4%
21 - 40	17.3%	19.1%	16.0%
41+	17.4%	23.6%	13.2%
Number of surveys	216	110	106

**(Mille Lacs Residents only)**

**In the last 12 months, how many times did  
you start a Mille Lacs boating trip from:  
A friend's property (not a commercial site)?**

Figures are: Column percent Times	Mille Lacs Total	Day of week	
		Weekends	Weekdays
0	65.7%	73.1%	62.5%
1 - 2	6.3%	15.4%	2.5%
3 - 5	15.7%	11.5%	17.5%
6+	12.3%	.0%	17.5%
Number of surveys	66	26	40

**(Mille Lacs Residents only)**

**In the last 12 months, how many times did you start  
a Mille Lacs boating trip from:  
A marina or private boat launch site?**

Figures are: Column percent Times	Mille Lacs Total	Day of week	
		Weekends	Weekdays
Mean	5.3	6.6	4.6
Median	1.0	2.0	.0
Minimum	.0	.0	.0
Maximum	40.0	35.0	40.0
Number of surveys	83	37	46

**(Mille Lacs Residents only)**

**In the last 12 months, how many times did you start  
a Mille Lacs boating trip from:  
A designated (signed) free public access?**

Figures are: Column percent Times	Mille Lacs Total	Day of week	
		Weekends	Weekdays
Mean	3.6	2.5	4.2
Median	.0	.0	.0
Minimum	.0	.0	.0
Maximum	50.0	20.0	50.0
Number of surveys	70	33	37

**(Mille Lacs Residents only)**

**In the last 12 months, how many times did  
you start a Mille Lacs boating trip from:  
A marina or private boat launch site?**

Figures are: Column percent Times	Mille Lacs Total	Day of week	
		Weekends	Weekdays
0	49.1%	43.2%	52.2%
1 - 5	22.1%	27.0%	19.6%
6 - 10	15.6%	8.1%	19.6%
11+	13.1%	21.6%	8.7%
Number of surveys	83	37	46

**(Mille Lacs Residents only)**

**In the last 12 months, how many times did  
you start a Mille Lacs boating trip from:  
A designated (signed) free public access?**

Figures are: Column percent Times	Mille Lacs Total	Day of week	
		Weekends	Weekdays
0	54.8%	51.5%	56.8%
1 - 2	17.5%	24.2%	13.5%
3 - 5	14.7%	12.1%	16.2%
6+	13.0%	12.1%	13.5%
Number of surveys	70	33	37

**(Mille Lacs Residents only)**

**In the last 12 months, how many times did you start  
a Mille Lacs boating trip from:**

**An undesignated boat access, such as a road end?**

Figures are: Column percent Times	Mille Lacs Total	Day of week	
		Weekends	Weekdays
Mean	.7	.3	1.0
Median	.0	.0	.0
Minimum	.0	.0	.0
Maximum	10.0	6.0	10.0
Number of surveys	50	21	29

**(Mille Lacs Residents only)**

**In the last 12 months, how many times did you  
start a Mille Lacs boating trip from:**

**An undesignated boat access, such as a road end?**

Figures are: Column percent Times	Mille Lacs Total	Day of week	
		Weekends	Weekdays
0	91.4%	95.2%	89.7%
6	1.5%	4.8%	.0%
8	2.3%	.0%	3.4%
10	4.7%	.0%	6.9%
Number of surveys	50	21	29

**In the past 12 months, how many times did you use a free public access on this lake?**

Figures are: Column percent Times	Total	Source of boater survey	Day of week		Lake class - 1998				
		Resident	Weekends	Weekdays	Large lakes	'A' lakes PA	'B' lakes PA	'C' lakes PA	All NPA lakes
Mean	2.2	2.2	2.3	2.1	2.7	2.2	2.2	2.5	.8
Median	1.0	1.0	2.0	1.0	1.0	2.0	2.0	1.0	.0
Minimum	.0	.0	.0	.0	.0	.0	.0	.0	.0
Maximum	100.0	100.0	100.0	30.0	100.0	30.0	20.0	30.0	6.0
Number of surveys	779	779	371	408	227	262	133	94	63

**In the past 12 months, how many times did you use a free public access on this lake?**

Figures are: Column percent Times	Total	Source of boater survey	Day of week		Lake class - 1998				
		Resident	Weekends	Weekdays	Large lakes	'A' lakes PA	'B' lakes PA	'C' lakes PA	All NPA lakes
0	44.0%	44.0%	40.8%	48.3%	47.3%	41.2%	39.0%	46.8%	67.4%
1 - 2	34.5%	34.5%	37.6%	30.3%	29.1%	38.0%	37.3%	26.7%	23.4%
3 - 5	11.2%	11.2%	11.7%	10.5%	12.4%	11.2%	10.7%	11.5%	7.2%
6+	10.3%	10.3%	9.9%	10.8%	11.2%	9.6%	13.0%	15.0%	1.9%
Number of surveys	779	779	371	408	227	262	133	94	63

### Have you ever used this access before?

Figures are: Column percent Answer	Total	Source of boater survey	Day of week		Lake class - 1998				
		Public access	Weekends	Weekdays	Mille Lacs	Large lakes	'A' lakes PA	'B' lakes PA	'C' lakes PA
Yes	76.0%	76.0%	77.1%	72.6%	81.6%	77.3%	74.6%	68.7%	84.2%
No	23.0%	23.0%	21.3%	26.7%	17.7%	20.8%	24.4%	31.3%	14.5%
Don't know	1.1%	1.1%	1.6%	.7%	.7%	1.9%	1.0%	.0%	1.3%
Number of surveys	923	923	290	486	147	574	121	40	41

### Have you ever tried to use free public access on this lake and found the access parking lot full?

Figures are: Column percent Answer	Total	Source of boater survey	Day of week		Lake class - 1998				
		Public access	Weekends	Weekdays	Mille Lacs	Large lakes	'A' lakes PA	'B' lakes PA	'C' lakes PA
Yes	63.6%	63.6%	67.0%	59.2%	66.0%	58.9%	58.6%	77.1%	61.3%
No	31.1%	31.1%	27.7%	34.9%	29.9%	35.2%	37.5%	15.0%	33.0%
Don't know	5.3%	5.3%	5.3%	5.9%	4.1%	5.9%	3.8%	7.9%	5.7%
Number of surveys	842	842	246	449	147	510	109	40	36

### How many times did you find the lot full in the past 12 months?

Figures are: Column percent Times	Total	Source of boater survey	Day of week		Lake class - 1998				
		Public access	Weekends	Weekdays	Mille Lacs	Large lakes	'A' lakes PA	'B' lakes PA	'C' lakes PA
Mean	1.1	1.1	1.1	1.1	1.1	1.0	.9	1.6	.7
Median	.0	.0	1.0	.0	.0	.0	.0	1.0	.0
Minimum	.0	.0	.0	.0	.0	.0	.0	.0	.0
Maximum	11.0	11.0	10.0	10.0	11.0	10.0	3.0	10.0	4.0
Number of surveys	991	991	307	534	150	625	128	42	46

### How many times did you find the lot full in the past 12 months?

Figures are: Column percent Times	Total	Source of boater survey	Day of week		Lake class - 1998				
		Public access	Weekends	Weekdays	Mille Lacs	Large lakes	'A' lakes PA	'B' lakes PA	'C' lakes PA
0	52.3%	52.3%	48.7%	54.9%	55.3%	58.7%	54.6%	32.3%	57.8%
1	14.3%	14.3%	17.5%	9.5%	18.7%	9.7%	12.4%	18.8%	23.8%
2	21.4%	21.4%	21.8%	23.6%	14.0%	18.1%	23.9%	32.6%	11.2%
3	6.7%	6.7%	7.7%	6.8%	3.3%	7.8%	9.1%	3.8%	5.1%
4	2.3%	2.3%	2.3%	2.1%	2.7%	1.6%	.0%	7.3%	2.0%
5	1.0%	1.0%	1.4%	.3%	2.0%	2.3%	.0%	.0%	.0%
6+	2.0%	2.0%	.6%	2.8%	4.0%	1.7%	.0%	5.2%	.0%
Number of surveys	991	991	307	534	150	625	128	42	46

### What did you do when you found the parking lot full?

Figures are: Column percent Action	Total	Source of boater survey	Day of week		Lake class - 1998				
		Public access	Weekends	Weekdays	Mille Lacs	Large lakes	'A' lakes PA	'B' lakes PA	'C' lakes PA
Parked on road	36.9%	36.9%	42.1%	33.3%	33.3%	35.1%	41.7%	43.1%	14.1%
Used another lake	13.9%	13.9%	13.6%	18.9%	6.5%	17.3%	15.7%	18.3%	3.5%
Used another access	39.0%	39.0%	32.1%	32.4%	61.3%	34.1%	30.6%	37.6%	10.6%
Didn't boat	4.7%	4.7%	1.7%	8.2%	4.3%	5.8%	1.8%	9.1%	.0%
Other	22.4%	22.4%	19.9%	31.9%	11.8%	18.2%	25.9%	23.9%	75.3%
Number of surveys	388	388	116	179	93	223	44	17	11

### How would you rate this access for launching and landing a boat?

Figures are: Column percent Rating	Total	Source of boater survey	Day of week		Lake class - 1998				
		Public access	Weekends	Weekdays	Mille Lacs	Large lakes	'A' lakes PA	'B' lakes PA	'C' lakes PA
Excellent	35.5%	35.5%	32.6%	37.4%	38.7%	39.4%	33.4%	37.4%	14.9%
Good	44.5%	44.5%	44.5%	46.3%	40.0%	45.5%	47.0%	38.2%	56.0%
Fair	12.9%	12.9%	16.3%	8.1%	16.0%	9.5%	13.7%	10.3%	24.8%
Poor	1.3%	1.3%	1.2%	.4%	4.0%	1.2%	1.1%	.0%	.0%
Very poor	1.4%	1.4%	.2%	2.7%	1.3%	.4%	.0%	5.7%	1.1%
Don't know	4.3%	4.3%	5.2%	5.1%	.0%	4.0%	4.9%	8.4%	3.2%
Number of surveys	927	927	292	485	150	578	119	38	42



**Did you have any particular problems using this access on this boating trip?**

Figures are: Column percent Rating	Total	Source of boater survey	Day of week		Lake class - 1998				
		Public access	Weekends	Weekdays	Mille Lacs	Large lakes	'A' lakes PA	'B' lakes PA	'C' lakes PA
Yes	22.3%	22.3%	22.8%	19.1%	29.3%	19.4%	23.0%	24.5%	9.6%
No	74.8%	74.8%	72.8%	78.6%	70.7%	78.0%	75.2%	67.6%	88.3%
Don't know	2.9%	2.9%	4.4%	2.3%	.0%	2.6%	1.8%	7.9%	2.1%
Number of surveys	923	923	291	482	150	575	116	40	42

### What was the problem(s)?

Figures are: Column percent Problem	Total	Source of boater survey	Day of week		Lake class - 1998				
		Public access	Weekends	Weekdays	Mille Lacs	Large lakes	'A' lakes PA	'B' lakes PA	'C' lakes PA
Not enough parking	40.9%	40.9%	54.3%	45.7%	4.5%	43.5%	53.1%	54.5%	62.5%
No room ramp: land	14.2%	14.2%	12.1%	18.7%	11.4%	17.1%	12.5%	14.7%	25.0%
Water too shallow	24.2%	24.2%	17.2%	13.3%	56.8%	25.2%	15.6%	.0%	37.5%
No room ramp: water	7.6%	7.6%	2.9%	8.8%	15.9%	8.6%	.0%	7.3%	25.0%
No dock	10.7%	10.7%	10.0%	17.0%	2.3%	9.3%	9.3%	23.6%	12.5%
Ramp blocked by cars	7.5%	7.5%	13.2%	4.5%	.0%	8.4%	17.2%	.0%	.0%
Inadequate signs	1.5%	1.5%	2.2%	1.5%	.0%	4.5%	.0%	.0%	12.5%
Road access safety	2.8%	2.8%	.7%	5.8%	2.3%	2.0%	.0%	7.3%	12.5%
Ramp not maintained	3.3%	3.3%	1.4%	6.5%	2.3%	5.3%	.0%	7.3%	.0%
Too few launch lanes	9.8%	9.8%	11.4%	6.6%	11.4%	13.7%	12.5%	.0%	.0%
Ramp slope too flat	9.4%	9.4%	11.4%	11.1%	2.3%	11.6%	12.5%	7.3%	25.0%
Wind or waves	14.0%	14.0%	6.8%	14.0%	29.5%	9.1%	10.9%	7.3%	25.0%
Can't find after dark	9.3%	9.3%	10.3%	6.6%	11.4%	6.2%	17.2%	.0%	.0%
Other problems	33.2%	33.2%	30.7%	38.8%	29.5%	34.2%	43.7%	22.0%	12.5%
Number of surveys	192	192	64	84	44	105	25	10	8

**Which of the following improvements do you feel are needed at this launch site?**

Figures are: Column percent Improvement	Total	Source of boater survey	Day of week		Lake class - 1998				
		Public access	Weekends	Weekdays	Mille Lacs	Large lakes	'A' lakes PA	'B' lakes PA	'C' lakes PA
Directional signs	10.2%	10.2%	11.1%	6.7%	14.3%	9.7%	7.2%	.0%	50.5%
Information signs	5.2%	5.2%	8.0%	4.8%	.0%	7.4%	9.7%	.0%	5.0%
Dock	11.8%	11.8%	15.1%	13.0%	2.5%	7.5%	13.2%	16.7%	55.4%
Better lighting	15.2%	15.2%	18.0%	11.8%	15.1%	9.1%	19.3%	9.6%	50.5%
Beacon light	28.7%	28.7%	21.9%	35.9%	30.3%	24.2%	24.7%	32.0%	65.3%
More parking	37.8%	37.8%	43.0%	44.4%	15.1%	38.7%	44.0%	46.1%	65.3%
Wave/wind protect	14.3%	14.3%	11.9%	11.3%	24.4%	10.9%	7.2%	9.6%	52.9%
Trash pickup	14.8%	14.8%	15.6%	8.9%	23.5%	15.0%	13.9%	7.1%	7.4%
Toilets	19.1%	19.1%	24.3%	19.9%	6.7%	22.4%	22.9%	23.7%	12.4%
Toilet maintenance	9.3%	9.3%	12.3%	5.3%	10.1%	11.2%	10.9%	3.2%	5.0%
More launch lanes	20.3%	20.3%	24.7%	16.9%	16.8%	16.9%	19.3%	23.7%	52.9%
Better enforcement	7.1%	7.1%	9.2%	6.1%	4.2%	7.4%	9.1%	6.4%	7.4%
Trash containers	25.9%	25.9%	24.7%	19.6%	39.5%	30.0%	18.1%	6.4%	57.9%
Other	16.0%	16.0%	16.7%	15.2%	16.0%	13.5%	16.3%	23.1%	5.0%
Number of surveys	575	575	192	264	119	342	67	24	23

### Do you think an additional (or initial) public boat access is needed on this lake?

Figures are: Column percent Answer	Total	Source of boater survey			Day of week		Lake class - 1998					
		Public access	Commercial access	Resident	Weekends	Weekdays	Mille Lacs	Large lakes	'A' lakes PA	'B' lakes PA	'C' lakes PA	All NPA lakes
Yes	14.7%	25.4%	16.5%	6.3%	11.7%	13.9%	36.7%	14.4%	8.6%	16.6%	14.2%	8.4%
No	70.5%	52.1%	60.3%	89.2%	74.2%	71.2%	47.1%	66.9%	79.8%	70.5%	71.4%	71.7%
Don't know	14.8%	22.5%	23.2%	4.5%	14.1%	14.9%	16.2%	18.7%	11.6%	12.9%	14.4%	19.9%
Number of surveys	2784	960	901	923	1096	1416	302	1455	478	223	165	161

### Why is it needed?

Figures are: Column percent Reason	Total	Source of boater survey			Day of week		Lake class - 1998					
		Public access	Commercial access	Resident	Weekends	Weekdays	Mille Lacs	Large lakes	'A' lakes PA	'B' lakes PA	'C' lakes PA	All NPA lakes
No access now	4.9%	.8%	5.7%	14.4%	5.1%	4.5%	5.0%	5.2%	.0%	3.7%	.0%	37.0%
Access too congested	54.2%	53.9%	63.4%	40.8%	48.6%	58.1%	57.5%	63.8%	54.7%	37.9%	74.5%	25.0%
Access wrong location	22.0%	17.8%	30.6%	19.9%	12.8%	26.2%	26.2%	25.6%	14.4%	26.0%	9.2%	11.5%
Access too shallow	21.3%	12.5%	34.8%	24.1%	12.4%	22.3%	37.0%	16.5%	10.9%	14.6%	14.9%	40.1%
Access too far off road	5.7%	3.7%	8.0%	7.3%	2.0%	10.3%	2.4%	6.4%	10.9%	3.6%	.0%	10.4%
Weather problems	25.0%	14.8%	41.5%	26.5%	15.3%	22.9%	45.8%	14.4%	13.8%	30.3%	7.9%	9.4%
Other reasons	21.1%	24.1%	16.2%	20.7%	28.4%	16.7%	17.2%	17.5%	34.0%	20.4%	15.6%	9.4%
Number of surveys	431	219	136	76	149	204	107	225	42	23	17	17

### How many other lakes do you boat on within about 50 miles of this lake?

Figures are: Column percent Lakes	Total	Source of boater survey			Day of week		Lake class - 1998					
		Public access	Commercial access	Resident	Weekends	Weekdays	Mille Lacs	Large lakes	'A' lakes PA	'B' lakes PA	'C' lakes PA	All NPA lakes
Mean	3.1	4.8	2.7	2.3	2.7	3.3	2.9	3.6	2.2	4.2	3.8	3.3
Median	1.0	2.0	1.0	.0	1.0	1.0	1.0	1.0	1.0	2.0	2.0	1.0
Minimum	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Maximum	230.0	100.0	230.0	200.0	50.0	230.0	25.0	230.0	50.0	100.0	50.0	200.0
Number of surveys	2886	920	839	1127	1159	1468	496	1383	465	225	159	158

### How many other lakes do you boat on within about 50 miles of this lake?

Figures are: Column percent Lakes	Total	Source of boater survey			Day of week		Lake class - 1998					
		Public access	Commercial access	Resident	Weekends	Weekdays	Mille Lacs	Large lakes	'A' lakes PA	'B' lakes PA	'C' lakes PA	All NPA lakes
0	43.8%	27.6%	40.8%	54.4%	46.3%	44.4%	41.3%	44.8%	49.5%	35.9%	28.8%	44.6%
1	11.5%	11.5%	11.9%	11.4%	12.2%	10.6%	10.1%	8.6%	15.0%	12.6%	7.4%	7.9%
2	10.2%	11.8%	11.9%	8.5%	8.7%	11.4%	10.5%	7.9%	9.7%	8.7%	16.2%	19.3%
3	7.7%	7.6%	8.7%	7.3%	7.5%	7.4%	9.7%	7.6%	6.6%	9.1%	8.7%	5.5%
4	5.1%	7.0%	6.0%	3.6%	5.1%	5.1%	5.4%	3.9%	4.7%	3.0%	11.1%	10.6%
5	6.5%	8.6%	8.8%	4.1%	5.3%	6.9%	7.8%	4.5%	4.6%	11.1%	11.7%	5.8%
6	9.8%	15.8%	8.3%	7.2%	10.4%	8.0%	10.8%	14.4%	7.2%	10.7%	8.2%	4.3%
10+	5.4%	10.2%	3.6%	3.6%	4.4%	6.3%	4.4%	8.3%	2.7%	8.9%	7.8%	2.0%
Number of surveys	2886	920	839	1127	1159	1468	496	1383	465	225	159	158

### How do you gain access to these other lakes?

Figures are: Column percent Location	Total	Source of boater survey			Day of week		Lake class - 1998					
		Public access	Commercial access	Resident	Weekends	Weekdays	Mille Lacs	Large lakes	'A' lakes PA	'B' lakes PA	'C' lakes PA	All NPA lakes
Free public access	76.0%	80.5%	86.9%	66.8%	71.9%	75.6%	92.5%	65.7%	76.3%	76.8%	65.3%	77.4%
Home or cabin	17.5%	14.9%	13.5%	21.6%	19.9%	18.1%	5.2%	22.4%	20.2%	15.7%	31.7%	11.2%
Friend's place	12.8%	11.0%	20.2%	10.3%	12.3%	14.4%	11.9%	10.0%	12.6%	17.7%	12.1%	14.1%
Resort/marina/private	14.2%	24.1%	.0%	14.3%	17.2%	11.5%	9.4%	15.0%	18.2%	12.8%	9.5%	12.8%
Other	7.0%	6.3%	4.8%	8.7%	8.7%	6.3%	3.0%	11.8%	4.5%	7.6%	14.2%	4.9%
Number of surveys	1901	745	479	677	710	983	323	913	284	154	121	106

### What types of information should be available at public boat accesses to enhance your boating experience?

Figures are: Column percent Information	Total	Source of boater survey			Day of week		Lake class - 1998					
		Public access	Commercial access	Resident	Weekends	Weekdays	Mille Lacs	Large lakes	'A' lakes PA	'B' lakes PA	'C' lakes PA	All NPA lakes
Depth map	47.9%	55.9%	53.1%	40.3%	49.3%	46.5%	44.3%	52.7%	46.1%	47.2%	61.0%	41.2%
Boat reg info	66.4%	66.4%	72.5%	63.0%	66.6%	65.7%	65.8%	65.7%	66.9%	62.8%	71.8%	72.2%
Boat hazard map	63.1%	69.6%	69.7%	55.5%	64.1%	61.8%	61.2%	67.6%	61.8%	58.3%	72.7%	62.2%
Fishing info	32.6%	39.4%	38.0%	25.6%	28.6%	32.3%	45.6%	32.2%	27.0%	26.6%	50.9%	31.8%
Emergency info	40.6%	45.9%	44.9%	35.2%	40.9%	39.1%	43.4%	44.0%	39.5%	38.1%	48.9%	28.7%
Natural history	15.7%	19.0%	16.6%	13.2%	17.6%	14.3%	12.5%	17.5%	15.9%	8.6%	31.0%	20.5%
Where buy gas	24.2%	33.4%	30.6%	15.2%	25.5%	23.0%	20.8%	31.2%	23.0%	21.1%	33.9%	13.8%
Other info	3.6%	4.9%	2.5%	3.5%	4.4%	2.4%	5.3%	4.4%	3.4%	2.6%	1.5%	1.6%
Don't use	17.9%	6.7%	13.1%	27.1%	18.2%	20.4%	16.2%	19.2%	17.9%	16.9%	13.9%	22.7%
Number of surveys	2782	859	886	1037	1101	1422	469	1363	442	208	153	147

**How effective would each of the following be in getting you to take steps to prevent further spread of exotic species, such as Eurasian watermilfoil and zebra mussels?**

**Laws that make it illegal to transport exotic species**

Figures are: Column percent Rating	Total	Source of boater survey			Day of week		Lake class - 1998					
		Public access	Commercial access	Resident	Weekends	Weekdays	Mille Lacs	Large lakes	'A' lakes PA	'B' lakes PA	'C' lakes PA	All NPA lakes
Very effective	46.7%	43.1%	47.0%	48.7%	43.6%	50.0%	46.7%	48.1%	45.5%	45.9%	43.5%	51.8%
Moderately effective	22.6%	23.0%	23.6%	21.8%	22.3%	22.1%	26.0%	20.9%	20.9%	24.7%	19.5%	26.2%
Slightly effective	14.2%	13.0%	14.9%	14.4%	14.1%	14.5%	12.8%	11.8%	16.6%	14.5%	15.2%	11.5%
Not effective	8.8%	12.4%	8.2%	7.1%	11.6%	6.4%	6.0%	9.5%	8.5%	10.2%	18.3%	5.4%
Don't know	7.7%	8.6%	6.3%	8.0%	8.4%	7.0%	8.5%	9.6%	8.5%	4.7%	3.4%	5.1%
Number of surveys	2813	894	845	1074	1127	1428	475	1362	457	209	157	153

**How effective would each of the following be in getting you to take steps to prevent further spread of exotic species, such as Eurasian watermilfoil and zebra mussels?**

**Road checks to enforce the laws**

Figures are: Column percent Rating	Total	Source of boater survey			Day of week		Lake class - 1998					
		Public access	Commercial access	Resident	Weekends	Weekdays	Mille Lacs	Large lakes	'A' lakes PA	'B' lakes PA	'C' lakes PA	All NPA lakes
Very effective	41.4%	37.8%	37.3%	45.6%	39.1%	45.1%	39.0%	45.1%	39.7%	39.8%	37.3%	49.2%
Moderately effective	23.2%	26.9%	22.7%	21.3%	24.4%	22.6%	20.3%	21.4%	25.2%	25.1%	27.4%	18.5%
Slightly effective	13.4%	10.3%	17.1%	13.2%	13.6%	12.3%	17.6%	10.3%	13.3%	15.3%	14.2%	9.7%
Not effective	12.3%	15.2%	13.8%	9.9%	12.6%	11.2%	11.7%	14.5%	11.6%	11.5%	8.8%	13.9%
Don't know	9.8%	9.9%	9.2%	10.0%	10.3%	8.8%	11.5%	8.8%	10.1%	8.3%	12.3%	8.7%
Number of surveys	2756	880	825	1051	1112	1391	461	1333	448	210	157	147

**How effective would each of the following be in getting you to take steps to prevent further spread of exotic species, such as Eurasian watermilfoil and zebra mussels?**

**Signs at boat landings**

Figures are: Column percent Rating	Total	Source of boater survey			Day of week		Lake class - 1998					
		Public access	Commercial access	Resident	Weekends	Weekdays	Mille Lacs	Large lakes	'A' lakes PA	'B' lakes PA	'C' lakes PA	All NPA lakes
Very effective	42.6%	39.4%	44.9%	43.2%	41.4%	43.4%	44.7%	42.7%	42.8%	43.3%	34.4%	39.8%
Moderately effective	30.1%	30.8%	32.6%	28.3%	29.7%	30.2%	29.1%	28.5%	29.1%	34.4%	36.6%	28.6%
Slightly effective	19.4%	20.7%	17.1%	19.8%	19.7%	19.0%	19.7%	19.1%	20.3%	14.8%	21.8%	22.9%
Not effective	4.2%	5.7%	2.5%	4.3%	5.0%	3.6%	3.8%	5.3%	3.8%	3.7%	4.0%	5.1%
Don't know	3.8%	3.5%	2.9%	4.4%	4.3%	3.7%	2.7%	4.4%	4.0%	3.8%	3.3%	3.7%
Number of surveys	2875	918	866	1091	1150	1460	479	1393	467	215	161	160

**How effective would each of the following be in getting you to take steps to prevent further spread of exotic species, such as Eurasian watermilfoil and zebra mussels?**

**Inspection-education programs at boat launches**

Figures are: Column percent Rating	Total	Source of boater survey			Day of week		Lake class - 1998					
		Public access	Commercial access	Resident	Weekends	Weekdays	Mille Lacs	Large lakes	'A' lakes PA	'B' lakes PA	'C' lakes PA	All NPA lakes
Very effective	44.7%	43.7%	43.5%	46.0%	45.6%	43.9%	43.0%	49.3%	45.7%	38.2%	48.8%	39.8%
Moderately effective	27.0%	24.7%	29.1%	27.3%	27.7%	26.2%	27.2%	25.6%	25.7%	32.1%	22.8%	30.2%
Slightly effective	14.0%	15.3%	15.8%	12.3%	12.0%	16.0%	14.7%	12.0%	14.8%	13.7%	13.2%	16.4%
Not effective	6.8%	9.6%	6.9%	5.0%	7.0%	6.3%	6.8%	6.3%	5.6%	9.7%	11.2%	5.3%
Don't know	7.4%	6.5%	4.6%	9.4%	7.7%	7.6%	8.3%	6.8%	8.1%	6.3%	4.0%	8.4%
Number of surveys	2819	909	847	1063	1136	1423	464	1367	462	212	161	153



**How effective would each of the following be in getting you to take steps to prevent further spread of exotic species, such as Eurasian watermilfoil and zebra mussels?**

**Information included in fishing and boating regulations and pamphlets**

Figures are: Column percent Rating	Total	Source of boater survey			Day of week		Lake class - 1998					
		Public access	Commercial access	Resident	Weekends	Weekdays	Mille Lacs	Large lakes	'A' lakes PA	'B' lakes PA	'C' lakes PA	All NPA lakes
Very effective	35.9%	34.8%	38.0%	35.5%	36.5%	34.7%	37.8%	35.4%	35.5%	39.4%	29.2%	33.3%
Moderately effective	30.8%	28.4%	34.5%	30.3%	30.2%	31.5%	29.2%	28.1%	30.2%	37.2%	35.4%	30.4%
Slightly effective	21.1%	23.4%	17.6%	21.6%	19.8%	22.3%	23.0%	23.2%	21.5%	10.3%	24.4%	27.9%
Not effective	7.4%	8.6%	6.3%	7.1%	8.3%	6.7%	5.7%	8.4%	7.3%	8.5%	7.8%	5.3%
Don't know	4.8%	4.7%	3.6%	5.5%	5.3%	4.8%	4.4%	5.0%	5.5%	4.6%	3.2%	3.1%
Number of surveys	2824	902	851	1071	1137	1426	468	1369	461	213	157	156

**What type of radio station do you primarily listen to?**

Figures are: Column percent Type	Total	Source of boater survey			Day of week		Lake class - 1998					
		Public access	Commercial access	Resident	Weekends	Weekdays	Mille Lacs	Large lakes	'A' lakes PA	'B' lakes PA	'C' lakes PA	All NPA lakes
Classical	7.2%	6.2%	7.2%	7.8%	8.5%	6.6%	3.7%	7.3%	8.9%	7.4%	6.0%	6.6%
Easy listening	27.4%	19.0%	26.9%	32.6%	28.6%	29.1%	18.1%	32.7%	26.9%	24.8%	29.5%	38.4%
Sports	4.3%	5.3%	3.7%	4.0%	4.1%	4.1%	6.0%	2.4%	4.7%	5.6%	2.1%	3.3%
Country	24.5%	26.6%	25.0%	22.9%	20.7%	25.8%	35.3%	20.0%	22.2%	30.8%	20.8%	14.5%
Jazz	2.9%	3.3%	2.0%	3.2%	3.5%	2.6%	2.0%	2.7%	4.2%	2.1%	1.4%	2.1%
Talk	9.5%	7.0%	5.7%	13.0%	9.8%	9.0%	12.1%	7.9%	11.6%	5.2%	6.9%	10.5%
Rock	18.1%	23.3%	25.9%	10.9%	16.9%	18.1%	18.1%	21.8%	16.0%	19.6%	11.7%	16.8%
Other	6.1%	9.4%	3.5%	5.5%	8.0%	4.9%	4.8%	5.2%	5.6%	4.4%	21.7%	7.7%
Number of surveys	3012	960	904	1148	1203	1544	506	1462	487	233	166	158

### Do you have a home computer connected to an on-line service or the Internet?

Figures are: Column percent Answer	Total	Source of boater survey			Day of week		Lake class - 1998					
		Public access	Commercial access	Resident	Weekends	Weekdays	Mille Lacs	Large lakes	'A' lakes PA	'B' lakes PA	'C' lakes PA	All NPA lakes
Yes	42.4%	46.8%	46.9%	37.5%	46.1%	40.2%	30.2%	47.1%	49.1%	33.9%	49.6%	34.9%
No	56.8%	52.7%	52.5%	61.4%	53.2%	58.9%	68.5%	52.4%	50.0%	65.6%	49.9%	64.4%
Don't know	.8%	.4%	.6%	1.1%	.6%	.9%	1.3%	.5%	.9%	.4%	.5%	.8%
Number of surveys	3042	971	913	1158	1211	1559	512	1476	492	234	167	161

### Do you have a home computer with a CD-ROM drive?

Figures are: Column percent Answer	Total	Source of boater survey			Day of week		Lake class - 1998					
		Public access	Commercial access	Resident	Weekends	Weekdays	Mille Lacs	Large lakes	'A' lakes PA	'B' lakes PA	'C' lakes PA	All NPA lakes
Yes	50.8%	55.5%	56.7%	45.0%	56.6%	45.3%	42.5%	56.7%	55.6%	41.0%	56.0%	44.7%
No	48.4%	43.9%	42.6%	53.9%	42.5%	53.9%	56.4%	42.5%	43.8%	58.2%	43.5%	54.5%
Don't know	.8%	.5%	.6%	1.1%	.9%	.8%	1.1%	.9%	.7%	.8%	.5%	.8%
Number of surveys	3032	972	906	1154	1200	1560	508	1471	489	235	167	162

**Which category best describes your total household income before taxes last year?**

Figures are: Column percent Income	Total	Source of boater survey			Day of week		Lake class - 1998					
		Public access	Commercial access	Resident	Weekends	Weekdays	Mille Lacs	Large lakes	'A' lakes PA	'B' lakes PA	'C' lakes PA	All NPA lakes
< \$20,000	3.7%	2.8%	3.7%	4.3%	2.9%	5.0%	3.3%	1.5%	4.4%	5.8%	4.2%	4.3%
\$20,000 - \$29,999	6.4%	4.1%	6.2%	7.8%	5.7%	7.8%	5.0%	3.6%	7.7%	6.2%	8.5%	11.5%
\$30,000 - \$39,999	8.6%	8.4%	7.1%	9.5%	7.3%	10.1%	11.0%	7.3%	7.8%	10.6%	6.9%	8.3%
\$40,000 - \$49,999	11.0%	13.7%	11.0%	9.4%	11.5%	9.6%	12.5%	11.2%	10.9%	11.5%	8.2%	8.2%
\$50,000 - \$74,999	22.9%	26.7%	29.2%	17.6%	19.3%	25.2%	25.2%	21.7%	18.4%	27.7%	30.9%	29.7%
\$75,000 - \$99,999	14.9%	15.1%	15.0%	14.8%	17.1%	12.2%	15.3%	16.2%	15.4%	15.7%	11.5%	8.2%
\$100,000 +	18.7%	16.8%	17.9%	20.2%	21.7%	17.9%	11.1%	23.9%	21.3%	12.2%	20.9%	17.3%
Refused to answer	12.2%	10.8%	7.8%	15.3%	13.5%	10.7%	13.4%	12.8%	13.1%	9.5%	8.5%	10.8%
Don't know	1.6%	1.7%	2.1%	1.2%	1.1%	1.5%	3.2%	1.8%	1.1%	.8%	.4%	1.8%
Number of surveys	2974	957	881	1136	1179	1531	494	1447	479	227	168	159

