

Lake George Recreation Study Plan, 2005

for the Lake George Park Commission

An Assessment of Recreational Use on Lake George,
including Identification of Priority Issues and Locations, and
a Framework for the Monitoring and Evaluation of Future Use

Appendices for the Final Report

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Disclaimer:

Unless otherwise noted, the information provided in this report does not represent the official statements or views of the Lake George Park Commission (LGPC). The information herein is presented as it was reported to the LGPC. The conclusions and recommendations represent the view of the researchers.

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Appendix 1: Notes on Stakeholder Meeting #1: 2/9/05

This first meeting of representatives from agencies, organizations, and businesses with an interest in recreational use of Lake George was held 2/9/05 at the Fort William Henry Conference Center in Lake George Village. It was held in association with a scheduled meeting of the Lake George Watershed Management Conference.

The agenda for the 2-hour session was as follows:

- Overview of the project
- Review the day's outcomes
 1. Introduce stakeholders to the goals and products of the recreation study plan
 2. Identify and prioritize individual and group input on the recreational use issues that currently exist on Lake George
- Grouping for small-group tasks
- Overview of the day's process
- Address the following key questions:
 1. What specific recreational issues or impacts on Lake George are most important to you?
 2. Where on Lake George are those recreational issues or impacts most evident?
 3. What questions about recreational use would you like to see answered by this study?
- Wrap-Up/Closure

Discussion on the following fourth topic was postponed to a later meeting: What tangible final products would be most beneficial to you in your efforts to ensure or provide enjoyable and safe recreational use of Lake George?

The 30 individuals in attendance were divided into groups of six after lining up according to their experience or knowledge about recreation on Lake George. The individuals counted off 1 - 6, which ensured that each group contained a range of experience and knowledge of Lake George recreational issues.

The 30 individuals working in groups of six then addressed four topics over a two-hour period. The procedure was for each table to brainstorm the main issues under each topic, followed by identifying top priorities among the issues identified. Those top priority issues were then recorded at the front of the room as each table called out their priority issues, one at a time.

The topics and results are reported as follows:

What specific recreational issues or impacts on Lake George are most important to you?

Each issue was categorized under one of six topic areas (headings) to provide organization for the mapping of where issues are occurring, under Topic 2. There were 32 issues identified and classified under the six topic areas. They are numbered to allow tracking them on the maps used in Topic 2, however, they are not numbered in priority order.

A. Aesthetics

- 1) Noise
- 2) User respect for mutual rights
- 3) Boat wake impact on environment
- 4) Noise of personal water craft
- 5) Carrying capacity
- 6) Large houses affecting aesthetics and views
- 7) Boat congestion

B. Boating

- 1) Boating skills, knowledge, and safety
- 2) Boating size, number, and speed
- 3) Light pollution adversely impacting night navigation and safety
- 4) User conflicts – large boats vs. non-motorized canoes, kayaks, sailboats, etc.
- 5) Adverse impact of dredging of lake to accommodate larger boats
- 6) Personal water craft (PWCs)

C. Other Recreational Activities

- 1) Parasailing
- 2) Competing recreational uses impacting other users
- 3) Personal water craft (PWCs)
- 4) Snowmobiles
- 5) Winter use of the lake (ATVs, snowmobiles, ice shacks, litter)

D. Water Quality

- 1) Storm water run off
- 2) Wave action from boats
- 3) Education on milfoil (invasive species/nuisance aquatics)
- 4) Carrying capacity
- 5) Littering and pollution related to recreational use
- 6) State of the fishery
- 7) Bacterial pollution from septic systems and boats
- 8) Boat motor emissions

- 9) Shoreline filling resulting in an increase in docks

E. Government

- 1) Public beach access is inadequate
- 2) Overall lack of public access to the lake, especially in south basin
- 3) Better balance between public access needs and homeowner rights

F. Education

- 1) Boating safety
- 2) Public awareness of rules and regulations on the lake

Where on the lake are those recreational issues or impacts most evident?

Each of the six work groups then looked over a large black & white map of Lake George. Using the issue numbers assigned above, each group wrote the numbers on the map in the location where each issue is especially prevalent or is a problem. Each group focused on just one topic and its related set of issues for about five minutes. The maps were then rotated to the next table, allowing each group to consider each topic area.

The table below places the 64 Lake George sub-zones in order according to how many issues were indicated per zone, starting with zones having the most issues recorded. The three pages of tables attached show how many zones were indicated as problem areas under each of the 32 issues, and list the zones where the issues are thought to be most prevalent under each of the six topic areas. Maps showing the location of the zones are also attached.

Number of Issues Indicated for Each Lake Zone, Sorted by Total Number of Issues

<u>Lake Zone / Location Summary</u>	<u># of Issues indicated</u>	<u>Lake Zone / Location Summary</u>	<u># of Issues indicated</u>
LG Village east (1B)	18	Anthony's Nose, Weeds Bay (15B)	2
LG Village west (1A)	18	Black Mtn Point (10B)	2
Cannon Point (3A)	15	Dome Island, Clay Island (7A)	2
Diamond Island east (2B)	15	Elizabeth Island channel (4C)	2
Hearthstone area (2A)	15	Gull Bay (13F)	2
Assembly Point area (3B)	14	Log Bay (8E)	2
Harris Bay (3D)	13	Rock Brothers Is, Browns Pt (14B)	2
NW Bay west (8A)	13	Shelving Rock Bay (8D)	2
Tea Island (1C)	9	Ticonderoga area east (16B)	2
Long Island west (4A)	8	Ticonderoga area west (16A)	2
Dunhams Bay (2D)	7	Arcady Bay (13D)	1
Narrows east (9B)	7	Blairs Bay (15D)	1
Pilot Knob area (6B)	7	Bluff Head area (12B)	1
Huckleberry Island area (8F)	6	Boon Bay (5C)	1
Narrows west (9A)	6	Dollar Islands (10A)	1
Waltonian Islands area (14A)	6	Echo Bay (5D)	1
Friends Point, Rogers Rock (15A)	5	Mossy Point (16D)	1
Huddle Bay (7C)	5	Mother Bunch Islands west (11A)	1
Warner Bay (3F)	5	NW Bay east (8B)	1
Whipple Island area (5B)	5	Sabbath Day Pt, Silver Bay (12A)	1
Assembly Point channel (3G)	4	Sawmill Bay (8C)	1
Cotton Point area (6A)	4	14 Mile channel (9C)	0
Long Island east (4B)	4	Andrews Bay (6D)	0
Pardo Point area (13A)	4	Bass Bay (12D)	0
Sandy Bay (3E)	4	Black Mtn Bay (10D)	0
Basin Bay (6C)	3	Harbor Island (11C)	0
Calf Pen area (7B)	3	Hearts Bay (16C)	0
Glen Island (9E)	3	Huletts Landing (11D)	0
Hague Bay (13E)	3	north of natural dam (16E)	0
Mallory Island area (13B)	3	Paradise Bay (10C)	0
Mother Bunch Islands east (11B)	3	Red Rock Bay (9D)	0
Rush Island area (5A)	3	Werners Bay (12C)	0

Specific recreational issues that are most important, by topic area

Topic	Priority Issue	# of Zones where ID'd as Problem
A. Issues of Aesthetics		
a1	Noise	7
a2	User respect for mutual rights	17
a3	Boat wake impact on environment	5
a4	Noise of personal water craft.	7
a5	Carry capacity.	0
a6	Large houses affecting aesthetics and views.	17
a7	Boat congestion	4
	<i>Aesthetics total:</i>	<u>57</u>

Mapped identification of where on Lake George the issue is most evident (by zone)

Priority Zones	# of Issues Indicated by Zone	Priority Zones	# of Issues Indicated by Zone
A. Issues of Aesthetics			
3D. Harris Bay	5	12B. Bluff Head area	1
2B. Woods Point area	4	13E. Hague Bay	1
13A. Pardo Point area	3	14A. Walltonian Islands area	1
15A. Roger's Rock	3	14B. Rock Brothers Is. area	1
1B. LG Village, west side	3	3E. Sandy Bay	1
3A. Cannon Pt. Area	3	3F. Warner Bay	1
13B. Mallory Island area	2	3G. Assembly Pt. Channel	1
15B. Anthony's Nose area	2	4A. Lake George Club area	1
1A. LG Village, east side	2	5A. Rush Island area	1
2A. State campground area	2	6A. Cotton Point area	1
3B. Assembly Pt. Area	2	6C. Basin Bay	1
5B. Whipple Island area	2	7A. Clay Is. - Dome Is. area	1
6B. Pilot Knob area	2	7B. Watch Pt. Area	1
8A. Sagamore, NW Bay area	2	7C. Huddle Bay	1
10A. Dollar Is. Group area	1	8 F. Huckleberry Is. area	1
10B. Black Mtn. Point area	1	9A. Narrows west side	1
12A. Sabbath Day/Silver Bay area	1	9B. Narrows east side	1

B. Boating Issues

b1	Boating skills, knowledge, and safety	11
b2	Boating size, number, and speed	21
b3	Light pollution adversely affecting night navigation	13
b4	User conflicts - large boats vs. non-motorized	2
b5	Dredging to accommodate larger boats	3
b6	Personal water craft (PWC)	3
	<i>Boating total:</i>	<u>53</u>

B. Boating Issues

3D. Harris Bay	4
8A. Sagamore, NW Bay area	4
1A. LG Village, east side	3
1B. LG Village, west side	3
1C. channel	3
2A. State campground area	3
2B. Woods Point area	3
3A. Cannon Pt. Area	3
3B. Assembly Pt. Area	3
9A. Narrows west side	3
14A. Walltonian Islands area	2
2D. Dunham's Bay	2
6B. Pilot Knob area	2
9B. Narrows east side	2

B. Boating Issues

11A. Harbor Islands area	1
4A. Lake George Club area	1
4B. Long Is. - Van Warner Bay	1
5A. Rush Island area	1
5B. Whipple Island area	1
5D. Echo Bay	1
6A. Cotton Point area	1
6C. Basin Bay	1
7C. Huddle Bay	1
8 F. Huckleberry Is. area	1
8D. Shelving Rock Bay	1
8E. Log Bay	1
9E. Glen Island	1

Specific recreational issues that are most important, by topic area

Topic	Priority Issue	# of Zones where ID'd as Problem
<u>C. Recreational Activities</u>		
c1	Parasailing	7
c2	Competing uses impacting other users	15
c3	Personal water craft	18
c4	Snowmobiles	7
c5	Winter use (ATV, snowmobile, litter, etc.)	10
<i>Recreation total:</i>		<u>57</u>

Mapped identification of where on Lake George the issue is most evident

Priority Zones	# of Issues Indicated by Zone	Priority Zones
<u>C. Recreational Activities</u>		
1A. LG Village, east side	5	3E. Sandy Bay
1B. LG Village, west side	5	3F. Warner Bay
2A. State campground area	5	3G. Assembly Pt. Channel
2B. Woods Point area	5	4B. Long Is. - Van Warmer
3A. Cannon Pt. Area	5	4C. Elizabeth Is. Channel
3B. Assembly Pt. Area	5	11B. Mother Bunch Is. area
4A. Lake George Club area	3	14A. Walltonian Islands area
8A. Sagamore, NW Bay area	3	15A. Roger's Rock
1C. channel	2	7C. Huddle Bay
2D. Dunham's Bay	2	8 F. Huckleberry Is. area
3D. Harris Bay	2	

D. Water Quality

d1	Storm water run off (<i>viewed as lake-wide issue</i>)	3
d2	Wave action from boats (<i>viewed as lake-wide issue</i>)	15
d3	Education on milfoil (<i>viewed as lake-wide issue</i>)	0
d4	Carrying capacity	4
d5	Littering and pollution related to recreational use	23
d6	State of the fishery	0
d7	Bacterial pollution from septic systems & boats	7
d8	Boat motor emissions	0
d9	Shoreline filling resulting in an increase in docks	5
<i>Water quality total:</i>		<u>39</u>

D. Water Quality

1B. LG Village, west side	5
1A. LG Village, east side	4
1C. channel	3
2A. State campground area	3
3B. Assembly Pt. Area	3
16A. Ticonderoga area - west side	2
2B. Woods Point area	2
2D. Dunham's Bay	2
3A. Cannon Pt. Area	2
3D. Harris Bay	2
3F. Warner Bay	2
8 F. Huckleberry Is. area	2
9B. Narrows east side	2
9E. Glen Island	2
13A. Pardo Point area	1
13B. Mallory Island area	1
13E. Hague Bay	1
13F. Gull Bay	1

D. Water Quality

14A. Walltonian Islands area
14B. Rock Brothers Is. area
15C. Blairs Bay
16B. Ticonderoga area - ea
3E. Sandy Bay
3G. Assembly Pt. Channel
4A. Lake George Club area
5C. Boon Bay
6C. Basin Bay
7A. Clay Is. - Dome Is. area
7B. Watch Pt. Area
7C. Huddle Bay
8A. Sagamore, NW Bay area
8C. Sawmill Bay
8D. Shelving Rock Bay
8E. Log Bay
9A. Narrows west side

Specific recreational issues that are most important, by topic area

Topic	Priority Issue	# of Zones where ID'd as Problem
<u>E. Government Issues</u>		
e1	Public beach access is less than adequate	10
e2	Overall lack of public access to the lake	5
e3	Better balance public access w/home owner rights	0
	<i>Government total:</i>	<u>15</u>

Mapped identification of where on Lake George the issue is most evident

Priority Zones	# of Issues Indicated by Zone	Priority Zones
<u>E. Government Issues</u>		
1A. LG Village, east side	2	16D. Mossy Point
11B. Mother Bunch Is. area	1	3A. Cannon Pt. Area
13E. Hague Bay	1	6B. Pilot Knob area
13F. Gull Bay	1	7C. Huddle Bay
14A. Walltonian Islands area	1	8A. Sagamore, NW Bay area
15A. Roger's Rock	1	9A. Narrows west side
16B. Ticonderoga area - east side	1	9B. Narrows east side

F. Education Issues

e1	Boating safety	21
e2	Public awareness of rules & regulations	11
	<i>Education total:</i>	<u>32</u>

F. Education Issues

1A. LG Village, east side	2
1B. LG Village, west side	2
2A. State campground area	2
4A. Lake George Club area	2
5B. Whipple Island area	2
6A. Cotton Point area	2
6B. Pilot Knob area	2
8A. Sagamore, NW Bay area	2
10B. Black Mtn. Point area	1
11B. Mother Bunch Is. area	1
13D. Arcady Bay	1

F. Education Issues

1C. channel
2B. Woods Point area
2D. Dunham's Bay
3A. Cannon Pt. Area
3B. Assembly Pt. Area
4B. Long Is. - Van Warmer B:
5A. Rush Island area
7B. Watch Pt. Area
8 F. Huckleberry Is. area
8B. NW Bay - Tongue Mtn ar
9B. Narrows east side

32 = total # of priority issues identified by stakeholders

Total issue-areas identified on maps of Lake George: 269

What questions about recreational use would you like to see answered by this study?

At this final stage of the 2-hour workshop, each of the six groups of five participants were asked to identify and prioritize the major questions about recreational use that they would like to see answered in the Lake George Recreation Study Plan.

The following list presents the results of that exercise. The consultants have organized the issues under broad topic areas to provide some organization to the list. We have also numbered and lettered them to facilitate future reporting and discussion of the questions and issues raised.

1. Boats and Boating: Types and Sizes of Boats

- a. Is there a trend toward larger boat size; how does size and type of boats compare to past?
- b. Can we obtain a more detailed boat survey that includes size, power, clean- burning, pre-1985 engines, etc.?
- c. Can we use the study to anticipate the future of boats and boating?
- d. What is the relationship between boat size, speed, and horsepower?
- e. Can we identify the number and use of PWCs?
- f. How often do people use boats, comparing homeowners, renters, dockers, etc.?
- g. Can we evaluate the impacts of particular types and sizes of boats?
- h. How many boat launches occur at each launch per day, both public and private launches?

2. Crowding, Conflicts, and Carrying Capacity

- a. What are the past (5-10 years) trends on daily number of users, by area; or, can we ask users what changes they have noticed in past 5-10 years?
- b. Can we clarify the relationship between intensity of use and user satisfaction?
- c. Specifically, how significant is conflicted use in specific areas?
- d. Perceptions on ease of use per user group; perform a Recreation Opportunity Spectrum (ROS) analysis?
- e. How will the issue of “carrying capacity” be addressed in this study; is there a formula for calculating carrying capacity; what are the variables that have to be considered?
- f. Will the discussion of carrying capacity be detailed enough to identify its effects in terms of different categories of users?
- g. Is the Lake George recreational experience positive for most people; why or why not (including considerations of access, cost, and related need for education messages)?

Crowding, Conflicts, and Carrying Capacity (cont'd)

- h. What is the impact of human use on tranquility of the lake?

- i. What are overall perceptions on limits to size, type, and quantity of boats; should or should not have limits?
- j. What is the projected state of recreation 25 years from now?
- k. How many users can the lake handle?
- l. How long will it take to fix current crowding and conflict problems?
- m. How willing will LGPC be to make changes that reduce boater impacts or conflicts?
- n. How many people cannot use the lake because of current conditions?
- o. Sustainable recreation: will the research address it and how it can be achieved?
- p. How concerned are non-PWC boaters about the PWC boaters on the lake?
- q. What are the attitudes of various user groups toward other user groups and how does that affect their lake use experience?

3. Economic Issues and Value of Recreation

- a. What is the economic impact of recreation on Lake George; how can that be used to improve stewardship, attract funding, etc.?
- b. How much does fishing contribute to the local economy (e.g., charters, bait shops, hotel nights, etc.) in both winter and summer?
- c. How will higher lakefront property taxes affect use as costs are passed on?
- d. Can we quantify length of stay?

4. Education and Outreach

- a. What are the educational needs to accomplish ends; will you identify methods to establish effective educational outreach programs for lake users, such as the boating public?
- b. What educational tools will be most effective for non-native species control?
- c. Can DEC boat launch ramps be monitored and staffed for pollution and nuisance species control?
- d. What boater education do boat renters and boat owners receive?

5. Nuisance Aquatics

- a. Can there be monitoring of boat launch ramps for nuisance aquatic species?
- b. How do nuisance aquatic species affect recreation experiences on Lake George?

Nuisance Aquatics (cont'd)

- c. What is the best way to prevent the transport of invasive species into the Lake George basin?
- d. In terms of nuisance aquatic species, where are boaters coming from (last lake they were on); can we characterize the typical boat launcher (e.g., equipment, home location, last lake locations, frequency of launching by lake)?
- e. Where are boaters coming from?

6. Other Recreational Use: Number and Type of Users

(in addition to items under Boating, above)

- a. What is the prime recreational use in the basin?
- b. How many users are on the lake daily and where; who is using the lake and how?
- c. Will the research allow us to determine visitor characteristics (e.g., demographics, socio-economic background, geographic location, etc.); can we use that data to project how that is changing and how it will affect the quality of the lake use experience?
- d. What is the seasonal flux of use?
- e. Day users as compared to resident users, can we compare type of use, timing, location, intensity, etc.?
- f. How many anglers are using the lake?
- g. What is the number of seasonal users and permanent population?
- h. What are the attitudes and perceptions of various user groups (e.g., boaters, fishing, swimmers, divers, skiers, kayakers, etc.?)
- i. Is the survey going to be a legitimate cross section of users, including homeowners, visitors, upland homeowners, business owners, etc.?
- j. Will the study incorporate scuba diving, heritage tourism, and submerged cultural resource preservation (submerged heritage preserves) into its review?

7. Regulation and Enforcement

- a. Will that data clarify the relationship between the number of actual boating infractions occurring vs. the number of recorded enforcement episodes/tickets issued?
- b. How do we improve enforcement and response?
- c. How effective are current parasailing and PWC regulations; what is the impact of the 1,500 foot buffer in the Village?

Regulation & Enforcement (cont'd)

- d. Is there a need for regulatory stop gaps on potential overuse/adverse use impacts (e.g., # of fireworks displays on the lakeshore)?
- e. Can we determine where safety buoys are not working and where new ones are needed?
- f. How can boat traffic be regulated and water quality impacts be controlled?
- g. Can there be a size limit on boats?

8. Water Quality: Recreational Impacts on

- a. Are any recreation uses adversely impacting natural resources?
- b. Can we assess the impact of road salting on lake water quality?
- c. Are there recreational impacts on fish and fisheries; how has the fishery changed over the years?
- d. What are the effects of each category of recreational use on water quality, fisheries, etc.?

9. Watershed and Viewshed Issues

- a. How do we maintain the healthy visual experience that is the prime use of Lake George?
- b. How many people are using upland recreation resources (e.g., hiking, biking, camping, snowmobiling, ATV riding, motorcycle riding, horseback riding, etc.); do they perceive an impact on lake water quality?

Lake George Stakeholder Participant list

The following 30 people participated in the 1st Lake George stakeholders workshop on 2/9/05:

Mary Arthur	Beebe	Lake George Association
Robert	Blais	Village of Lake George
Sharon	Borgos	The Fund for Lake George
Jim	Brangan	Lake Champlain Basin Program
Armand	Canestraro	Lake George Power Squadron
Carol	Collins	The Fund for Lake George
Thomas	Conerty	Lake George Park Commission
David J.	Decker	Lake George Watershed Conference
Robert	Dedrick	Town of Ticonderoga
William	Dow	Lake George Steamboat Co.
Bill	Dutchen	Lake George Association
Howard	Fischer, Jr.	Fischer's Marina
Cliff	Frasier	Warren County Soil & Water Conservation District
Laurel	Gailor	Cornell Cooperative Extension of Warren County
Molly	Gallagher	Lake George Park Commission
Thomas W.	Hall	NYS Dept of Env Conservation
James	Hood	Lake George Association
Lori	Kerrigan	Warren County Soil & Water Conservation District
John	LaPointe	Town of Putnam, Washington County
Jim	Lieberum	Warren County Soil & Water Conservation District
Kevin	Millington	Division of Coastal Resources
Mariso	Muratori	Village of Lake George
Chris	Navitsky	Lake George Waterkeeper
Frank	Parillo	Dunham's Bay Docks & Launch
Raney	Rath	Lake George Association
Chris	Raul	
Deanne	Rehm	Adirondack Park Agency
Thomas	Ruach	Adirondack Marine
Art	Stemp	NYS Dept of Env Conservation
Michael	White	Lake George Park Commission

Next Steps

Next steps for the Lake George Recreation Study Plan include the following:

- Complete project scope and work plan.
- Continue compiling recreation facility location data and inventory.
- Create a GIS computer map database and presentation program that includes map layers relevant to recreational use assessment and planning.
- Develop the questionnaire survey instruments.
- Finalize the fieldwork plan on when and where data collection will occur.

A second stakeholders meeting is planned for late May, 2005. The focus of that work session will be on evaluating the preliminary data collection tools and processes developed for use on Lake George during the summer of 2005.

Further information and summary documents for the Lake George Recreation Study Plan are available on the Lake George Park Commission (LGPC) website, located at:

<http://www.lgpc.state.ny.us/recasses.html>

Clarifications or questions on this summary document or the research in general can be sent to:

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Appendix 2: Notes on Stakeholder Meeting #2: 5/16/05

Lake George Recreation Study Plan

Summary of 2nd Stakeholders Workshop – May 16, 2005

This second meeting of representatives from agencies, organizations, and businesses with an interest in recreational use of Lake George was held 5/16/05 at the Fort William Henry Conference Center in Lake George Village. The meeting ran from 1 PM to 3 PM. The agenda for the 2-hour session was as follows:

Review of Meeting Outcomes:

- To update stakeholders on progress to date
- To acquire input from stakeholders regarding the survey content
- To review and acquire input on the data collection process

Update Presentation

- Update stakeholders on progress to date
- Presentation of the survey content

Create Small Stakeholder Groups

Questionnaire Survey Review and Critique

- Small group discussion around 3 topics:
Plus or most useful, Missing or unclear, Interesting observation or question
- Call-out of main issues

Data Collection Process Presentation

- Small group discussion
- Call-out of main issues

Wrap-up/Closure

The facilitator divided the 15 individuals in attendance into three groups according to their type of organization, primarily Business, Government, and Not for Profit. The small groups then reviewed a draft of the boater questionnaire that had been mailed to them the week prior. The procedure was for each group to discuss the questionnaire and identify main issues or problems under the following three main topic areas:

- Plus or Most Useful – Items in the questionnaire that seem especially effective and useful.
- Missing or Unclear – Items of interest that are missing from the questionnaire, or that are unclear
- Interesting – Observations or questions on items and issues in the questionnaire.

They were then asked to identify the top priority issues among the ones identified. Those top priority issues were then recorded at the front of the room as each group called out their priority issues.

The results are reported as follows:

1. Plus or Most Useful

- a. Q #11 - The map-related questions seem useful and effective.

2. Missing or Unclear

- a. Q #4 – the use of the term “own” is unclear or confusing. Need to clarify intent. If person answering is not the boat owner, for some reason, may miss use of boats.
- b. Q #12 – should have more items like “motorboats,” “cabin cruisers,” large boats, etc.
- c. Q #13 – There are other issues affecting regular users, related to the role of regulation and its impacts: increasing costs of permits, new speed zones, etc.
- d. Q #13 – There appears to be bias in some sections, such as #13c – “shoreline erosion caused by boat wakes.” That is not the only cause of shoreline erosion.
- e. Q #13 – Could you add a prioritization item, asking people to identify the top 1 or 2 issues in #13.
- f. New Q – Could ask about people’s perception of the increase in boating accidents, and then in the analysis compare that to actual numbers as recorded by law enforcement.

3. Interesting – Observations or Questions

- a. Rules and regulations for the lake are not clearly posted or widely distributed. Many of the hazard buoys are too small. There is a need for better raising of awareness among the boating public.
- b. Will you clearly distinguish between perceived issues and the incidence of actual and measured problems?
- c. Is the survey skewed towards regulation and is there a way to adjust that?
- d. Could you add some items on the “impact of regulations” to a sub-set of surveys, then in the analysis look at any change between those surveys and the rest of the surveys, in terms of attitudes toward issues and problems?
- e. There are topics in the survey that do not seem to be within the mission of the LGPC.
- f. There is no comparative rating of the Lake George recreation experience with that of other lakes. It appears that there is a higher quality of experience here.

We also asked for comments on a draft of the brief intercept survey that will be given to boat owners who are launching their boats at boat launches and marinas, and who have purchased a day or week permit. Their names do not appear in databases, so they cannot be mailed a survey unless they consent to participate in the research and provide their mailing address.

The comments included:

- a. The boater training issue is complicated by different regulations, for example PWC operators are required to have completed a boater safety course.
- b. There are many access areas that are not beaches and not boat launches, but that are still access points to the lake and where it would be worth surveying users.

Next Steps

Next steps for the Lake George Recreation Study Plan include the following:

- Use the information gathered in the workshop (including written comments by the participants) to finalize the questionnaire survey instruments.
- Finalize fieldwork schedule and locations.
- Continue compiling recreation facility location data and inventory for the GIS database.
- Begin questionnaire survey work in June.

Further information and summary documents for the Lake George Recreation Study Plan are available on the Lake George Park Commission (LGPC) website, located at:

<http://www.lgpc.state.ny.us/recasses.html>

Clarifications or questions on this summary document or the research in general can be sent to:

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Appendix 3: Notes on Stakeholder Meeting #3: 5/25/06

Main Issues and Concerns Highlighted by the Group:

At the end of the two hour meeting there was only a short time to review and prioritize the top two concerns and observations within each of the six groups. Following are what seem to be the main concerns under each of the six groups. There was no effort to reach consensus on those items. There were many more concerns – at least 166 – raised by the nineteen participants and those are provided below after the summary of top concerns.

Number and Type of Boats:

- Measures to control PWCs do not seem to be working in all areas, the PWC regulations need review and assessment
- What are other heavily used lakes around the country doing to control or limit boat use (Lake Tahoe, etc.)

Congestion, Overcrowding, and Competing Uses

- Non-Motorized use - Designate areas for non-motorized boaters only, greater danger to non-motorized users in some areas
- Publicize high use areas to the boating public

Boating Safety and Enforcement

- Require all boaters to have a safety course before getting use permit; Formalize boater education with skills training and driver exam
- Renters of Boats: There may be language barriers, make sure non-English speakers are properly informed/outfitted; brochures should be in other languages

Noise on the Lake

- Enforcement – noise, exhaust cut-outs; especially “cut-off” switches (should have and use)
- Promote and support non-motorized use

Public Access

- Raise awareness of public access
- How best to disseminate information; education

Water Quality

- Improve water quality, no net decline
- Need to stop degradation of water quality – bacterial, emissions, litter, water clarity (water stirred up)

Summary of Comments by Major Issue:

The concerns and observations are organized alphabetically by topic within each major issue category.

Number and Type of Boats

Airplane use: What about...

Ban PWCs: Will solve many problems; amusement park mentality marketing

Boat limits: Possible/legal to limit total number of boats on lake, powerboats in particular;
how can non-motorized boat use be encouraged and does this increase access

Boater Education: Should be supported and perhaps required

Comparisons to other high-use lakes: Examine other high-use lakes/area (e.g., Lake Tahoe)
and find out what is working there

Cost of enforcement: Distribute cost among most frequent violators

Data needed: Large tour boats in particular

Data: Can it be separated by location and satisfaction

Displacement: Would like more data and trends on how congestion is displacing boaters

Economic impact: What will be impact of change from oil/gas-based economy to
alternative/hybrid/etc. economy

Link to other issues: Noise (health hazard); congestion; etc.

Parasails: Spread use out to reduce congestion

PWC tour guides: May not be working guides, the guides do not seem to be guiding

PWCs: Education is working, things are improving

PWCs: Guides not always doing their job

PWCs: Issues still exist; need more enforcement; education helps, more needed

PWCs: Renter vs. owner

PWCs: Standard in report seems inadequate/unclear; need for education (re-evaluate
education); percentage of total number of tickets needs to drop (be in proportion with
actual number of boats)

PWCs' power and speed: Not appreciated/recognized (lack of awareness of users);
"acceptable standard" doesn't address this

Regulations: Are different regs needed for different boat classes (PWCs vs. powered sailboat)

ROS: Can it work as a concept here

Stakeholders: Need more involvement

Wakes: No data; education needed

Congestion, Overcrowding, and Competing Uses

Access: Everybody belongs on the lake

Accident sites: Map (for boater info)

Acres per boat: Applied to lake overall; should different acre requirements be applied to different areas to provide spectrum of use; could that be enforced?

Boating safety and education: Very important

Boats per acre: 0.15 acres per boat while moored seems high, can get more boats in safely

Brochure: Revising annually too expensive

Commission: Take into account cumulative impacts of more docks/boats in a particular zone

Congestion: Some will always exist; some areas of lake more desirable

Daily boating activity info

Divers: Boaters do not recognize diver down flag

Economic impact: Found numbers interesting

Enforcement: Enforcement of current regulations

Enforcement: Need more resources, brochures, decals for boat with information

Licenses: Should everyone be licensed to drive a boat; would Boat USA be interested in promoting

Limits: Need to be discussed; limits on boat size, caps on uses

Metrics: Quantify if possible metrics on congestion and overcrowding

Multi-lingual: Information in more languages than English

Near-misses/accidents: Do not mix with congestion, should not be listed together

Non-motorized boat use: Too dangerous, especially at certain times of day; manage so this is not true

Non-motorized boats: Consider flag on back for safety reasons

Non-motorized use only zones: Create (i.e., Northwest Bay, all wetlands, Dunham's Bay wetlands)

Nor enough stakeholders here, need another meeting

Numbers: Concern that numbers reflect only most crowded days

Parasails: Spread out use on lake

Publicize high use by area: Publicize high boat use by area (i.e., in July there's heavy traffic in this area), assumes people know names or use maps

Rental boats: Do they contribute more to accidents and problems; need for study of this

Renters of Boats: There may be language barriers, make sure non-English speakers are properly informed/outfitted

Safety: Danger because boats are bigger now

Speed zones: Need to inform about speed zones

Tourists: Tourists getting lost on lake is a concern

Tow lines: Concern about boaters running into tow lines

Tubing: Unsafe if other boats are too close

Use-specific zones: Certain parts of lake for certain uses, some areas are more appropriate for certain uses than others

Water skiing: Limit areas or times

Zones: Review each zone more specifically

Boating Safety and Enforcement

- Accident rates: Need to be cut, not maintained
- Accidents per zone: Lack of info on breakdown of accidents per zone
- Boat license: Need a boat driver's license to rent a boat (state license)
- Boat wakes: Impact on anchored boats
- Boater problems: Boaters cause problems for themselves, not others
- Boater safety courses: Increase availability
- Boating skills: Need improvement
- Buoys: Buoys around shifting hazards (i.e., sand bars)
- Buoys: Need more at Green Island
- Comprehensive pamphlet: Invasive species, noise regs, safety procedures, etc.
- Good boater checklist: Provide with registration
- Inconsiderate boaters: Sailboat owner had to take boat off lake due to inconsiderate boaters
- Insurance discount: Car insurance discount for taking boating safety course
- LGPC database: To what degree does LGPC database correlate with number of accidents, close calls
- Marine patrols: Highly effective, proactive
- Marine patrols: Need more; need more north of Rogers Rock
- Navigational aids: Need to be improved
- Non-motorized boats: Need visibility (i.e., flags)
- Pamphlets: Need to be in other languages (i.e., French, Spanish, etc.)
- Parasail operations: No issue
- Parasails: Study practices
- Registration: Should be able to do it online
- Regulations: Put pamphlet with regulations in boater's hands at registration; make available online
- Rental boats and safety: Renters may need to take safety course; require renters to have safety certificate
- Rental boats: Distinct markings
- Seaplanes, parasails: Moratorium needed
- Sharing lake: More inclination to share lake in spring
- Shoreline: High-speed boats need to be further distance from shoreline
- Sufficient marine patrols: Lake users opinions on sufficient number of patrols, or should there be more; need to formulate how much of a patrol presence there should be
- Tickets and accidents: Number of tickets consistent (comparable) to number of accidents

Noise on the Lake

- Brochure: Distribute brochure describing "limitations" to all boat owners/users
- DB(a limit: Should be lower, below 90
- Education: Emphasize interpersonal aspect re: noise impact on others
- Enforcement: Increase, especially re: "cut-off" switches (should have and use)
- Fines: Increase
- Horsepower: Limit horsepower size of boats
- Horsepower: Noise is not related to horsepower as indicated in report, so do not use a sliding scale boat permit fee based on horsepower, rather let fines pay for enforcement

Noise testing: Develop “easy” testing procedure (instrument held at 45 degrees)
Non-motorized use, look at ways to support it
Signage: Clear message at access sites indicating noise limitations
Sliding scale: Higher fees for higher horsepower to help pay for enforcement
Standards: Applied to all engines on lake (e.g., seaplanes)
Testing: Test prior to entering lake

Public Access

Accurate counts: Report should indicate how to do accurate boat counts and launch counts
All DEC boat launches: Upgrade to Million Dollar Beach standards
Congestion: Increased access will mean increased congestion/crowding
Diminishing access: DEC should investigate
Education: How best to disseminate information
Educational materials: Needed regarding winter ice use and safety
Environmental impacts of winter use: Study impacts on areas such as wetlands
Ice-eaters: Standards needed to ensure riparian rights and public safety
Increase awareness of public access
Increasing access: Increase in North Basin; can DEC increase access
JIMAPCO map: Update based on results of report, provide pdf and video/dvd versions
Lack of access: Not a problem
Lake Avenue non-motorized launch: It is new, not included on maps, etc.
Lake owned by state: Starting point of all discussion should be “Lake George is owned by the state and a public resource”
Million Dollar Beach Boat Launch: State invested heavily in facility, yet it is not open all summer
Non-motorized launch sites: Should be encouraged, there should be more, and non-motorized launches should be allowed at beaches
Public beach for the Town of Queensbury: Is it a feasible goal, is there a possible location
Public launches/enforcement: More enforcement staff to provide education on regs and LG-specific regs (PWC use, invasive species, no-wake zones, etc.)
Rights-of-way for hand-launch boats: These existed along lakeshore from the Village to Bolton Landing every 1 or 2 miles, they should be documented and mapped
Snowmobiles: Speed limit needed, night use is a problem, enforcement needed
Winter ice: Safety problems/issues

Water Quality

4-stroke ratio: How does the percentage of use compare to other lakes
Areas of concern for runoff: Sherriff’s culvert, West Brook, English Brook, deltas
Bacterial issue: Add docks on state islands just for boaters that need to use facilities; make more porta-potties available in high use areas, bays, etc.
Bacterial pollution: Must be increasing due to more boating and smaller boats
Boat pollution: Switch from 2-cycle to 4-cycle
Boat wash stations: What are public attitudes toward boat wash stations (willing to accept delay, etc.)
Brochures: Need to be inclusive
Cable TV access programming: could use to educate the public about water quality issues.

Calcium levels: Increasing due to road salt, cement, and introduction by construction

Determining water quality: How to judge water quality

Educational materials: What is the best way to target boaters; hard to educate – some care, some do not; divers fill bags with garbage, litter

Eutrophication: Process needs to be slowed

Feeding ducks and geese: Still occurs; environmental tragedy

Fireworks: Litter problem; lots of private displays now

Funding: How to fund monitoring and improving water quality; ask the question on LGPC forms - Would they like boat use fees to go toward water quality issues

Grant funding: Lake George not benefiting from grant funding as much as Lake Champlain

Increase water quality: Acceptable standard should be raised to increase water quality (restoration, not preservation)

Invasive species and marinas: How do marinas view boat monitoring; will people wait in line; does it deter business; will customers go to a different marina next time; need to get all marinas involved

Invasive species: A lot of education on invasive species, could be influencing the reported high interest by the survey work

Issues related to water quality: Lots of issues; many development issues

Lake clean-up: Need more effort to clean up lake bottom (hired hands, pros); litter attracts nuisance (species)

Lay monitoring: Could be more; Lake Champlain (VT side) seems to have a better lay monitoring program; could be more workshops on lay monitoring

LGPC Marine Patrol is proactive in approaching people

Litter: Divers see a lot; 25,000 pieces in 12 years; a lot of stuff floating into lake

Littering: Most people do not see; Joe and Bob are cleaning around wrecks

Long-term relationship with lake: A very long-term relationship with lake – 40 years, etc. – even temporary boaters (18 years) so, what more can we do to get the word out

Meeting attendance: Meeting lightly attended, not enough stakeholders

Milfoil: Live near it and water quality going down; seriousness of problem

Milfoil: Sonar is not the answer on Lake George, toxic chemical

Need for LG identity: Lake George needs an identity around protecting environment, high stakeholder involvement, self-respect – a respect that is conveyed clearly to visitors so that they treat the area with respect

New property owners: Do they have the same stewardship concerns

Nuisance species: Big problem (Zebra mussels, milfoil)

Septic systems and milfoil: Have seen where improved septic systems have reduced milfoil problem in local area

Septic systems: Leaking systems, enforcement totally lacking; ten years ago tried to enforce fully compliant systems, but backed off; building costs should be able to handle a compliant system

Small islands: Disappearing due to boat wakes, especially the large wakes from tour boats

Storm water management: Key to controlling other water quality issues

Toxins in fish: No mention, yet big issue on Lake Champlain

Upland runoff: Lakes tend to fill in, how to slow that process is the goal

Zebra mussels: First found by divers

Appendix 4: Questionnaire Survey for Boaters

1. How many boats did you own that were used on Lake George in 2005? (Indicate the number next to each type of boat.)

Number of Motorized Boats		Number of Non-motorized Boats	
_____ personal watercraft (PWC, jet ski)	_____	_____ canoe, kayak, row boat, shell, etc.	_____
_____ other powerboat – 10 hp. or more	_____	_____ sailboat or sailboard under 18 ft.	_____
_____ other powerboat – less than 10 hp.	_____	_____ sailboat 18 ft. or more	_____
_____ sailboat – 10 hp. or more	_____		
_____ sailboat – less than 10 hp.	_____		

2. For the motorized boats listed above, please tell us a little about each of them and the number of people they typically carry?

Motorized Boats	Inboard (I) Outboard (O), or I/O	For Outboards: 2-cycle or 4-cycle?*	Horse power	# People usually in boat
Boat used most often	_____	_____	_____	_____
Other boat 1	_____	_____	_____	_____
Other boat 2	_____	_____	_____	_____
Other boat 3	_____	_____	_____	_____

*A 2-cycle engine uses oil and gas mixed in the tank. A 4-cycle engine has oil added separately.

3. Regardless of whether you were in the boat or not, how many days have the boats you own gone out on Lake George so far this year (2005)? (If you owned 2 sailboats and they were used each day in July, you would write down 62 days [31x2] on the July sailboat line. Any use during the day counts as one day.)

TOTAL # OF DAYS BOATS YOU OWN WERE USED

Month	PWC(s)	Other Powerboat(s)	Sailboat(s)	Canoe, Kayak, etc.(s)
April	_____	_____	_____	_____
May	_____	_____	_____	_____
June	_____	_____	_____	_____
July	_____	_____	_____	_____
August	_____	_____	_____	_____
September	_____	_____	_____	_____

4. Do you anticipate that any of the boats you own will be used on Lake George in October or November of this year?

- _____ Yes, in October
- _____ Yes, in November
- _____ No, not in October or November

5. When you go out on the lake, approximately how many hours are you out in your boat on an average weekday and weekend day?

- _____ average # hours boating on a weekday (Mon.–Fri.)
- _____ average # of hours boating on a weekend day (Sat.–Sun.)

6. What is the primary way that you gained access to Lake George for boating in 2005? (Check only ONE method.)

- _____ Dock or mooring that you own
- _____ Dock or mooring accessed through a homeowners association
- _____ Dock or mooring at a private home owned by someone else
- _____ Dock or mooring at a commercial marina or yacht club
- _____ Dry slip (quick launch) at a commercial marina or yacht club
- _____ Marina or private boat launch ramp
- _____ Public boat launch ramp

7. Which of the following activities do you typically engage in while boating on Lake George? (Check all that apply.)

- _____ Water skiing/tubing
- _____ Cruising/sightseeing
- _____ Sailing
- _____ Scuba diving
- _____ Fishing from boat
- _____ Swimming from boat
- _____ Transportation (to store or restaurant, visit friends, etc.)
- _____ Island picnicking
- _____ Island camping
- _____ Anchoring during the day
- _____ Anchoring overnight
- _____ Mooring at Sandy Bay

8. Which of the following activities have you engaged in this year on or near Lake George? (Check all that apply.)

- _____ Ice fishing
- _____ Snowmobiling
- _____ Cross-country skiing or snow-shoeing
- _____ Swimming from shore
- _____ Fishing from shore
- _____ Camping near shore
- _____ Other, please specify: _____
- _____ Ice skating
- _____ Hiking/Backpacking
- _____ Picnicking
- _____ Parasailing
- _____ Tour boat ride

9. In the center of the page below are features of the recreational experience at Lake George that other people have noted. For each feature, please first indicate on the left side its importance to you. Then go to the right side and indicate how satisfied you were with this feature during the 2005 season.

How important was this feature to you while recreating on or near Lake George?					Feature	How satisfied were you with this feature during the 2005 season?				
Very Unimportant	Unimportant	Neutral	Important	Very Important		Very Dissatisfied	Dissatisfied	Neutral	Satisfied	Very Satisfied
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Scenic beauty	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Feeling of relaxation	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Feeling of camaraderie within my group	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Sharing the experience with my family	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Enjoying the natural world	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Feeling of peace and quiet	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Opportunity for physical exercise	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Enjoying my favorite water sports	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Not feeling crowded by other boaters	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Challenging my boating skills	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	The thrill of a speed boat ride	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Clear, clean water	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Feeling safe while boating	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

10. Overall how satisfied or dissatisfied were you with your 2005 Lake George recreation experience?

Very Dissatisfied
 Dissatisfied
 Neutral
 Satisfied
 Very Satisfied

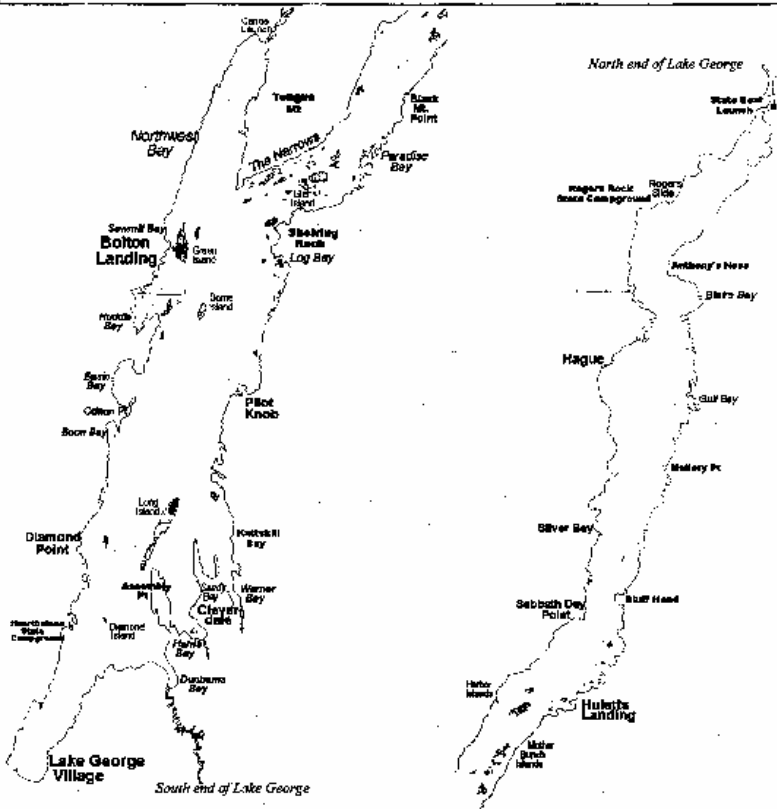
What contributed most to your satisfaction?

What contributed most to your dissatisfaction?

11. Please mark the following four items of information on this map of Lake George.

Note that the south and central portions of the lake are shown on the left, while the north end is on the right.

- Please put a capital "A" on the map indicating the place where you primarily access the lake for boating.
- Please circle the area(s) where you spent the majority of your time boating during the 2005 boating season. (If you travel widely on the lake, please circle only those areas where you spent most of your time.)
- If you had a boating accident or a "near-miss" (an alarming event when a collision was just avoided) in 2005, place Xs where the incident(s) took place. Did the "near-miss" or accident(s) involve a: (check all that apply)
 - ___ swimmer ___ personal watercraft ___ other motorboat ___ sailboat
 - ___ your boat ___ non-motorized boat ___ natural hazard (e.g., submerged rock)
- If any areas of the Lake are routinely so congested that they interfere with your enjoyment of the lake, please lightly shade those areas with dots or lines on the map.



12. Below we have listed different types of boaters and different times of the boating season. Place a check in any boxes for which the number or behavior of certain types of boaters significantly detracted from your enjoyment of Lake George in 2005.

	Early Summer (May 15–June 30)	Peak Season (July 1–Sept. 5)	Fall (Sept. 8–Oct. 15)
	Any day of the week	Weekend or Holiday	Any day of the week
Non-motorized boaters	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sailboaters	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
PWC (jet ski) users	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Other motorized boat users	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Parasailers	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

13. To what extent did you find each of the following recreation-related issues to be a problem on Lake George in 2005? (Please check one box for each potential problem.)

	Not a Problem	A Minor Problem	A Major Problem
a. Litter on or near the water	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b. Noise from personal water craft	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c. Noise from other boats	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d. Shoreline erosion caused by boat wakes	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e. Getting access to the lake for your boat	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
f. Crowding at public boat launching sites	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
g. Crowding at boat anchorages	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
h. Lack of dock facilities	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
i. The number of boating accidents or "near-misses"	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
j. Rowdy behavior of other boaters	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
k. Activities on the water disturbing my enjoyment when I am onshore	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
l. Unsafe operation of other boats	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
m. Parasailing activity	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
n. Unmarked boating hazards	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
o. Water pollution from boat motors	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
p. Improper disposal of human waste from boats	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
q. Invasive species, like zebra mussels, entering the lake on boats	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

14. Are there any other recreation-related issues you are concerned about that you think we should be aware of, including winter-time recreation issues? (Please describe below.)

15. Please circle the issue in Question 13 or 14 that you think is the biggest problem.

16. Are there any management actions (e.g., more navigation buoys, new regulations) you think should be considered to deal with problems you experienced on Lake George in 2005? (Please describe below.)

17. Did you change your plans or modify your behavior in any of the following ways because of problems you experienced on Lake George in 2005? (Please check all that apply.)

- Boated earlier or later in the day
- Boated more often earlier or later in the season
- Boated more on weekdays than weekends or holidays
- Boated other areas of the lake than where I prefer
- Canceled certain boating activities (e.g., water-skiing)
- Boated on other water bodies

18. How aware are you of the special rules and regulations on Lake George for governing speed, engine noise, anchoring, PWC use, parasailing, etc.?

- Little awareness
- Some awareness
- Great deal of awareness

19. Do the special Lake George rules and regulations add or detract from your enjoyment of Lake George?

- greatly add to my enjoyment
- add somewhat to my enjoyment
- neither add nor detract from my enjoyment
- detract somewhat from my enjoyment
- greatly detract from my enjoyment

20. Did you have any direct contact with the marine patrol officers who work on Lake George during the 2005 boating season?

- No → GO TO QUESTION 22
- Yes → What type of contact(s) did you have? (Please check all that apply.)
- I received information/directions
- I received assistance
- I received a warning
- I received a ticket
- I reported a situation or incident

21. How would you rate your experiences in 2005 with the marine patrol officers?

- Positive Negative Mixed
- (both positive and negative)

22. The Lake George Park Commission is a New York state agency established by the Legislature to protect Lake George and the safety of its users. The Commission issues boat and dock permits, establishes rules governing a wide range of uses on the lake, operates a marine patrol, and directs a variety of environmental programs including milfoil management, stormwater management and pollution investigations.

Before receiving this questionnaire had you ever heard of the Lake George Park Commission?

- No → GO TO QUESTION 24
- Yes → CONTINUE BELOW

23. How effective do you think the Commission's water-based recreation programs are at achieving these goals set out in its mission statement?

	Not at all Effective	Somewhat Effective	Very Effective	Don't Know
a. provide reasonable public access to Lake George	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b. limit congestion and overcrowding on the Lake	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c. reducing safety hazards through special lake regulations	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d. maintain a safe boating environment through use of the marine patrol	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e. preserve lake water quality	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

24. Which of the following best describes your current association with the Lake George area? (Check only one.)

- Year-round resident
 Seasonal visitor or resident (e.g., condo owner, second-home owner)
 Visitor/Day-user

25. How many years, including 2005, have you personally visited or lived in the Lake George area?

years you have visited or lived in the area

26. How far is Lake George from your permanent, year-round residence?

miles Check here if you live year-round less than 1 mile from the shore

27. How would you describe the type of area where you live most of the year? (Check one.)

- Rural
 Community with under 5,000 people
 Community with 5,000 to 24,999 people
 City with 25,000 to 100,000 people
 City with over 100,000 people

28. In what year were you born? 19__

29. Are you male or female? Male Female

Please use the space below for any comments you wish to make.

THANK YOU FOR YOUR TIME AND EFFORT!

To return this questionnaire, seal it with the white removable seal (postage has been provided) and drop it in the nearest mailbox.

Appendix 5: Questionnaire Survey for Beach Users

Water-based Recreation on Lake George



Human Dimensions Research Unit
Department of Natural Resources
Fennow Hall
Cornell University
Ithaca, New York 14853-3001

WATER-BASED RECREATION ON LAKE GEORGE

Research conducted by the
Human Dimensions Research Unit
Department of Natural Resources
Cornell University

Sponsored by the New York State Lake George Park Commission

Recently you were interviewed while visiting Lake George. We are sending you this follow-up survey to learn about your experiences in the area and identify any concerns or problems you might have associated with the Lake. Information from this study will help the Lake George Park Commission with its planning efforts for the Lake. The Commission's legislative mission includes developing rules and regulations governing boating and a range of water-dependent activities to provide reasonable public access to the Lake without congestion, overcrowding or safety hazards. The Commission is also charged with preserving the Lake's natural resources, including its superior water quality.

Please complete this questionnaire at your earliest convenience, seal it, and drop it in any mailbox (no envelope is needed); return postage has been provided. Your participation in this study is voluntary, but your response is extremely important to us. Your responses will remain confidential and will never be associated with your name. The questionnaire has an identification number so your name can be crossed off our list when you respond and we will not send you further reminder notices.

THANK YOU FOR YOUR HELP!



Printed on recycled paper

1. Which of the following activities have you engaged in this year on or near Lake George? (Check all that apply.)

- | | |
|---|---|
| <input type="checkbox"/> Canoeing/kayaking | <input type="checkbox"/> Sailing |
| <input type="checkbox"/> Ice fishing | <input type="checkbox"/> Ice skating |
| <input type="checkbox"/> Snowmobiling | <input type="checkbox"/> Hiking/Backpacking |
| <input type="checkbox"/> Cross-country skiing or snow-shoeing | <input type="checkbox"/> Swimming |
| <input type="checkbox"/> Camping | <input type="checkbox"/> Picnicking |
| <input type="checkbox"/> Fishing | <input type="checkbox"/> Parasailing |
| <input type="checkbox"/> Tour boat ride | <input type="checkbox"/> Motor boating |
| <input type="checkbox"/> Other, please specify: _____ | |

2. How many boats did you own that were used on Lake George in 2005? (Indicate the number next to each type of boat.)

Check here if you did not own any boats that were used on Lake George in 2005.

- | <u>Number of Motorized Boats</u> | <u>Number of Non-motorized Boats</u> |
|---|--|
| <input type="checkbox"/> personal watercraft (PWC, jet sk) | <input type="checkbox"/> canoe, kayak, row boat, shell, etc. |
| <input type="checkbox"/> other powerboat – 10 hp. or more | <input type="checkbox"/> sailboat or sailboard under 18 ft. |
| <input type="checkbox"/> other powerboat – less than 10 hp. | <input type="checkbox"/> sailboat 18 ft. or more |
| <input type="checkbox"/> sailboat – 10 hp. or more | |
| <input type="checkbox"/> sailboat – less than 10 hp. | |

3. How many days have you spent on Lake George or along the shoreline so far this year (2005) and how many days were you out on the Lake in a non-motorized boat (e.g., canoe, kayak)?

<u>Month</u>	<u>Days on or near Lake George</u>	<u>Days Used Canoe, Kayak, etc.</u>
April	_____	_____
May	_____	_____
June	_____	_____
July	_____	_____
August	_____	_____
September	_____	_____

4. Do you anticipate spending time on or along the shoreline of Lake George in October or November of this year?

- Yes, in October
 Yes, in November
 No, not in October or November

5. In the center of the page below are features of the recreational experience at Lake George that other people have noted. For each feature, please first indicate on the left side its importance to you. Then go to the right side and indicate how satisfied you were with this feature during the 2005 season.

How important was this feature to you while recreating on or near Lake George?					Feature	How satisfied were you with this feature during the 2005 season?				
Very Unimportant	Unimportant	Neutral	Important	Very Important		Very Dissatisfied	Dissatisfied	Neutral	Satisfied	Very Satisfied
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Scenic beauty	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Feeling of relaxation	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Feeling of camaraderie within my group	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Sharing the experience with my family	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Enjoying the natural world	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Feeling of peace and quiet	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Opportunity for physical exercise	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Enjoying my favorite water sports	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Not feeling crowded by other lake users	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Challenging my outdoor skills	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Excitement of boating on the open lake	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Clear, clean water	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Feeling safe while boating	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

6. Overall how satisfied or dissatisfied were you with your 2005 Lake George recreation experience?

<u>Very Dissatisfied</u>	<u>Dissatisfied</u>	<u>Neutral</u>	<u>Satisfied</u>	<u>Very Satisfied</u>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

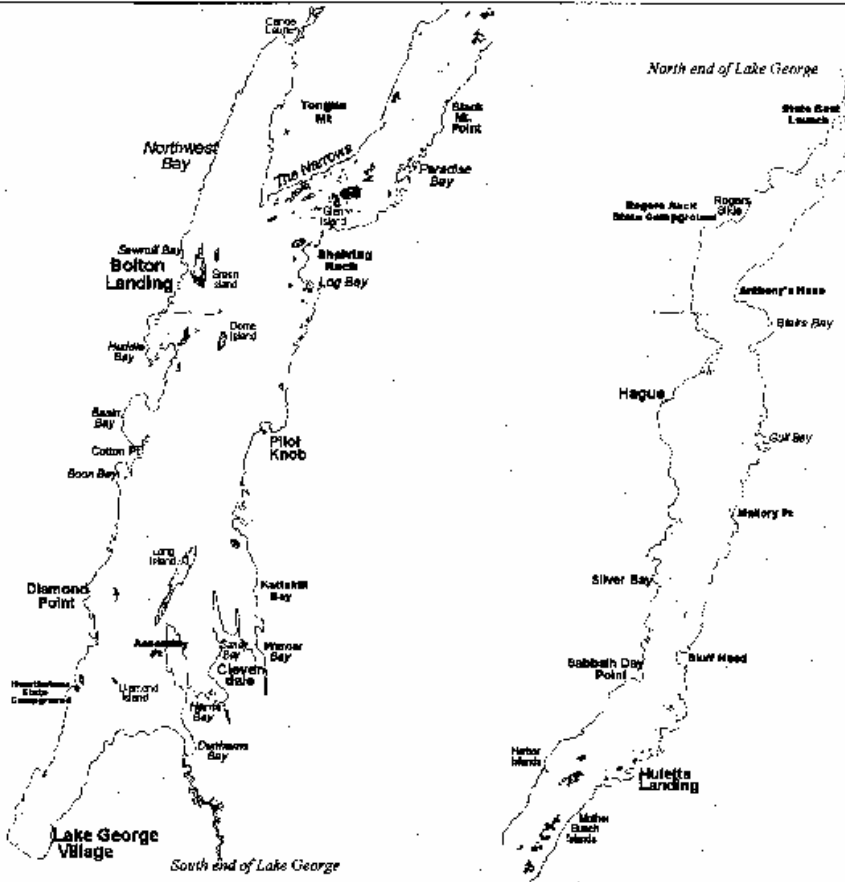
What contributed most to your satisfaction?

What contributed most to your dissatisfaction?

7. Please mark the following four items of information on this map of Lake George.

Note that the south and central portions of the lake are shown on the left, while the north end is on the right.

- Please put a capital "A" on the map indicating the place where you primarily access the lake.
- Please circle the area(s) where you spent the majority of your time on or near the water during the 2005 summer season. (If you travel widely on the lake, please circle only those areas where you spent most of your time.)
- If you had a boating accident or a "near-miss" (an alarming event when a collision was just avoided) in 2005, place Xs where the incident(s) took place. Did the "near-miss" or accident(s) involve a: (check all that apply)
 swimmer personal watercraft other motorboat sailboat
 tour boat non-motorized boat natural hazard (e.g., submerged rock)
- If any areas of the Lake are routinely so congested that they interfere with your enjoyment of the lake, please lightly shade those areas with dots or lines on the map.



8. Below we have listed different types of boaters and different times of the boating season. Place a check in any boxes for which the number or behavior of certain types of boaters significantly detracted from your enjoyment of Lake George in 2005.

	Early Summer	Peak Season		Fall
	(May 15–June 30)	(July 1–Sept. 5)	(Sept. 8–Oct. 15)	
	Any day of the week	Weekday	Weekend or holiday	Any day of the week
Non-motorized boaters	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sailboaters	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
PWC (jet ski) users	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Other motorized boat users	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Parasailers	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

9. To what extent did you find each of the following recreation-related issues to be a problem on Lake George in 2005? (Please check one box for each potential problem.)

	Not a Problem	A Minor Problem	A Major Problem
a. Litter on or near the water	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b. Noise from personal water craft	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c. Noise from other boats	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d. Shoreline erosion caused by boat wakes	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e. Getting access to the water for your boat	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
f. Crowding at swimming areas	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
g. Crowding at campgrounds	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
h. The number of boating accidents or "near-misses"	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
i. Rowdy behavior of other lake users	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
j. Activities on the water disturbing my enjoyment when I am onshore	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
k. Unsafe operation of boats	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
l. Parasailing activity	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
m. Water pollution from boat motors	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
n. Invasive species, like zebra mussels, entering the lake on boats	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

10. Are there any other recreation-related issues you are concerned about that you think we should be aware of, including winter-time recreation issues? (Please describe below.)

11. Please circle the issue in Question 9 or 10 that you think is the biggest problem.

12. Are there any management actions (e.g., new facilities, new regulations) you think should be considered to deal with problems you experienced on Lake George in 2005? (Please describe below.)

13. Did you have any direct contact with the marine patrol officers who work on Lake George during the 2005 summer season?

No → GO TO QUESTION 15

Yes → What type of contact(s) did you have? (Please check all that apply.)

- I received information/directions
- I received assistance
- I received a warning
- I received a ticket
- I reported a situation or incident

14. How would you rate your experiences in 2005 with the marine patrol officers?

Positive

Negative

Mixed (both positive and negative)

15. The Lake George Park Commission is a New York state agency established by the Legislature to protect Lake George and the safety of its users. The Commission issues boat and dock permits, establishes rules governing a wide range of uses on the lake, operates a marine patrol, and directs a variety of environmental programs including milfoil management, stormwater management and pollution investigations.

Before receiving this questionnaire had you ever heard of the Lake George Park Commission?

- No → GO TO QUESTION 18
 Yes → CONTINUE BELOW

16. How familiar are you with the Lake George Park Commission and its programs?

- Very familiar
 Moderately familiar
 Somewhat familiar

17. How effective do you think the Commission's water-based recreation programs are at achieving these goals set out in its mission statement?

	Not at all Effective	Somewhat Effective	Very Effective	Don't Know
a. provide reasonable public access to Lake George	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b. limit congestion and overcrowding on the Lake	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c. reducing safety hazards through special Lake regulations	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d. maintain a safe boating environment through use of the marine patrol	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e. preserve lake water quality	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

18. Which of the following best describes your current association with the Lake George area? (Check only one.)

- Year-round resident
 Seasonal visitor or resident (e.g., condo owner, second-home owner)
 Visitor/Day-user

19. How many years, including 2005, have you personally visited or lived in the Lake George area?

_____ # years you have visited or lived in the area

20. How far is Lake George from your permanent, year-round residence?

_____ # miles _____ Check here if you live year-round less than 1 mile from the shore

21. How would you describe the type of area where you live most of the year? (Check one.)

- Rural
 Community with under 5,000 people
 Community with 5,000 to 24,999 people
 City with 25,000 to 100,000 people
 City with over 100,000 people

22. In what year were you born? 19____

23. Are you male or female? Male Female

Please use the space below for any comments you wish to make.

THANK YOU FOR YOUR TIME AND EFFORT!

To return this questionnaire, seal it with the white removable seal (postage has been provided) and drop it in the nearest mailbox.

Appendix 6: Questionnaire Survey for Commercial Dock Owners

DEMAND FOR RECREATIONAL BOATING SERVICES

1. In 2005 what was the occupancy rate across the entire boating season for slips of the following types?

	<u>% Occupied</u>
Seasonal wet slips	_____
Dry slips (dry stack)	_____
Transient slips	_____

2. If you rented boats, across the entire 2005 boating season, what percent of the time were the following types of boats rented in 2005?

% of Time Rented

_____	Non-motorized boats (canoe, kayak, row boat, shell)
_____	Personal watercraft (jet skis)
_____	Other motorized boats
_____	Sailboats

3. Do you turn away customers because of lack of dock space?

_____ No
 _____ Yes, occasionally
 _____ Yes, routinely

4. Looking five years into the future, do you think demand for dock space at your facility will:

_____ Increase
 _____ Stay the same
 _____ Decrease

OPINIONS ON LAKE USE

5. Which of the following activities do your clientele typically engage in while boating on Lake George? (Check all that apply.)

_____ Water skiing/tubing	_____ Island picnicking
_____ Cruising/sightseeing	_____ Island camping
_____ Sailing	_____ Anchoring during the day
_____ Scuba diving	_____ Anchoring overnight
_____ Fishing from boat	_____ Mooring at Sandy Bay
_____ Swimming from boat	
_____ Transportation (to store or restaurant, visit friends, etc.)	

6. In the center of the page below are features of the recreational experience at Lake George that other people have noted. For each feature, please first indicate on the left side its importance to your clientele. Then go to the right side and indicate how satisfied you think your clientele were with this feature during the 2005 season.

How important was this feature to your clientele while recreating on or near Lake George?					Feature	How satisfied were your clientele with this feature during the 2005 season?				
Very Unimportant	Unimportant	Neutral	Important	Very Important		Very Dissatisfied	Dissatisfied	Neutral	Satisfied	Very Satisfied
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Scenic beauty	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Feeling of relaxation	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Feeling of camaraderie within my group	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Sharing the experience with my family	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Enjoying the natural world	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Feeling of peace and quiet	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Opportunity for physical exercise	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Enjoying my favorite water sports	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Not feeling crowded by other boaters	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Challenging my boating skills	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	The thrill of a speed boat ride	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Clear, clean water	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Feeling safe while boating	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

7. Overall, on average, how satisfied or dissatisfied do you think your clientele were with their 2005 Lake George recreation experience?

Very Dissatisfied
 Dissatisfied
 Neutral
 Satisfied
 Very Satisfied

What contributed most to their satisfaction?

What contributed most to their dissatisfaction?

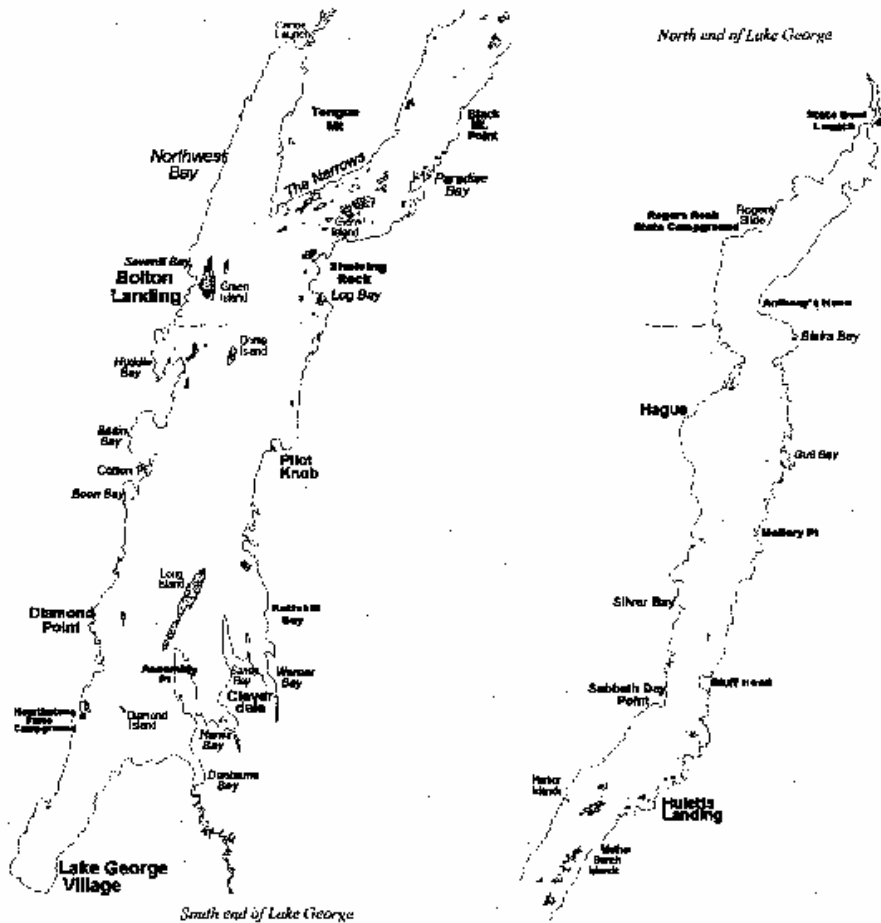
8. Please mark the following three items of information on this map of Lake George.

Note that the south and central portions of the lake are shown on the left, while the north end is on the right.

a. Please put a capital "A" on the map indicating your commercial dock location.

b. Please circle the area(s) where you think your clientele spent the majority of their time boating during the 2005 boating season. (If they travel widely on the lake, please circle only those areas where you think they spent most of their time.)

c. If any areas of the Lake are routinely so congested that you think they interfere with the enjoyment of the lake by your clientele, please lightly shade those areas with dots or lines on the map.



9. Below we have listed different types of boaters and different times of the boating season. Place a check in any boxes for which you think the number or behavior of certain types of boaters significantly detracted from your clientele's enjoyment of Lake George in 2005.

	Early Summer (May 15–June 30)	Peak Season (July 1–Sept. 5)	Fall (Sept. 6–Oct. 15)
	Any day of the week	Weekend or Holiday	Any day of the week
Non-motorized boaters	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sailboaters	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
PWC (jet ski) users	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Other motorized boat users	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Parasailers	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

10. To what extent did you find each of the following recreation-related issues to be a problem on Lake George in 2005? (Please check one box for each potential problem.)

	Not a Problem	A Minor Problem	A Major Problem
a. Litter on or near the water	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b. Noise from personal water craft	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c. Noise from other boats	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d. Shoreline erosion caused by boat wakes	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e. Getting access to the lake for your boat	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
f. Crowding at public boat launching sites	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
g. Crowding at boat anchorages	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
h. Lack of dock facilities	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
i. The number of boating accidents or "near-misses"	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
j. Rowdy behavior of other boaters	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
k. Activities on the water disturbing my enjoyment when I am onshore	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
l. Unsafe operation of other boats	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
m. Parasailing activity	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
n. Unmarked boating hazards	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
o. Water pollution from boat motors	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
p. Improper disposal of human waste from boats	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
q. Invasive species, like zebra mussels, entering the lake on boats	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

11. Are there any other recreation-related issues you are concerned about that you think we should be aware of, including winter recreation issues? (Please describe below.)

12. Please circle the issue in Question 10 or 11 that you think is the biggest problem.

13. Are there any management actions (e.g., more navigation buoys, new regulations) that you think should be considered to deal with problems you or your clientele experienced on Lake George in 2005? (Please describe below.)

14. Did you have any direct contact with the marine patrol officers who work on Lake George during the 2005 boating season?

_____ No → GO TO QUESTION 15

_____ Yes → What type of contact(s) did you have? (Please check all that apply.)

- _____ I received information/directions
- _____ I received assistance
- _____ I received a warning
- _____ I received a ticket
- _____ I reported a situation or incident

How would you rate your experiences in 2005 with the marine patrol officers?

- _____ Positive
- _____ Negative
- _____ Mixed (both positive and negative)

15. As you know, the Lake George Park Commission is a New York state agency established by the Legislature to protect Lake George and the safety of its users. The Commission issues boat and dock permits, establishes rules governing a wide range of uses on the lake, operates a marine patrol, and directs a variety of environmental programs including milfoil management, stormwater management and pollution investigations.

How effective do you think the Commission's water-based recreation programs are at achieving the following goals set out in its mission statement?

	Not at all Effective	Somewhat Effective	Very Effective	Don't Know
a. provide reasonable public access to Lake George	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b. limit congestion and overcrowding on the Lake	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c. reducing safety hazards through special lake regulations	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d. maintain a safe boating environment through use of the marine patrol	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e. preserve lake water quality	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

16. Do you have any suggestions on how the Commission's programs could be improved? (Please describe below.)

Are there any other issues not covered in the questionnaire that you as a commercial dock owner think the Lake George Park Commission should be aware of? (Please describe below.)

THANK YOU FOR YOUR TIME AND EFFORT!

To return this questionnaire, seal it with the white removable seal (postage has been provided) and drop it in the nearest mailbox.

Appendix 7: Beach User Intercept Survey

Lake George Recreation Study Plan

2005 Intercept Survey of Beach and Canoe Access Users on Lake George, conducted by:
Cornell University, Human Dimension Research Unit in cooperation with Holmes & Associates of Saranac Lake

In an effort to better understand recreational use of **Lake George**, would you answer a few questions about your use.

1. First I need to ask if you own a boat that is being used on Lake George this summer? Yes____ No____

If No, continue with 2. If Yes – What type of Lake George permit do you have (or will you have):

↓

____Annual ____Temporary (Week or Day Permit)

Thank you for your time, but boat owners are being surveyed by mail.

2. Did you use this location last year? No____ Yes____ ⇒ If Yes, about how many times last year? ____ times

3. What types of lake-related activities are you doing today? *check all that apply.*

____ swimming or wading	____ paddling/rowing (canoe, kayak, rowboat, rowing shell)
____ sunbathing	____ small motorboat use
____ fishing	____ sailing (sailboard, sunfish, etc wading)
____ picnicking	____ camping near the lakeshore

Other: _____

4. How many hours are you planning to be recreating on or near the lake today? # of hrs: ____

5. How many people are in your group today? Total #:____ Adults:____ (18 years and older) Children:____

6. Are you using other recreation locations on or near the Lake today? _____

7. Which of the following best describes your current association with the Lake George area? *check only one.*

____Year-round resident ____Seasonal resident ____Visitor

8. Have you experienced or observed any problems near the lake today? *(read all responses; check all that apply)*

____ Too many boats near shore
____ Difficulty accessing lake
____ Lack of restrooms
____ Boats passing too close to shore or swim area
____ Excessive speed by boats near shore
____ Insufficient parking space

Other: _____ (took out "behavior of other users")

9. Did you see a marine patrol boat today? Yes____ No____ Not Sure____

10. How effective do you think the marine patrol is in maintaining a safe environment?

____Not at all Effective ____Somewhat Effective ____Very Effective ____Don't Know

11. Our research includes a follow-up survey about your recreational use of Lake George. Cornell University will mail the survey to your home by and it only takes a few minutes to complete. May I have your name and address?

Name: _____ No____

Address: _____

City, State, Zip Code: _____

Any Other Comments:

Appendix 8: Public Beach Use Count Table, 2005

Lake George Beach Use - Average Users per Hour by Beach, 2005 - Along with Total Estimates

Week Day Average

Hour	Diamond Point Beach	Fort Ann Beach	Gull Bay Beach	Hague Beach	Hearthstone CG Beach	Huletts Landing Beach	Million Dollar Beach	Rogers Memorial Park Beach, Bolton	Rogers Rock CG Beach	Shepard Park Beach, LGV	Ticonderoga Beach	Usher Park Beach	Veteran's Park Beach, Bolton	Hour	Total User Count
9-10AM	6	1	2	7	9	5	34	13	1	23	2	7	15	9-10AM	
10-11AM	8	2	3	9	12	7	52	18	18	32	6	10	21	10-11AM	
11-12AM	12	2	5	13	18	8	84	27	17	48	8	15	30	11-12AM	
12-1PM	21	4	1	23	31	16	146	45	39	81	49	26	15	12-1PM	
1-2PM	23	4	5	24	33	12	135	40	50	87	74	28	55	1-2PM	
2-3PM	20	4	8	21	30	13	185	50	65	75	43	24	80	2-3PM	
3-4PM	19	3	7	20	28	12	231	41	79	73	21	23	46	3-4PM	
4-5PM	12	2	5	13	18	16	187	26	62	46	17	15	35	4-5PM	
5-6PM	8	1	3	8	11	16	50	16	40	29	12	9	18	5-6PM	
6-7PM	10	2	9	11	15	4	21	22	29	40	5	13	25	6-7PM	
User Count:	140	25	47	149	204	108	1,126	298	399	534	235	170	340		3,776

divide by 4 (avg 4 hrs per user):

944

Number of People visiting a Beach on Lake George on an Average Week Day:

944

Times 43 week days in summer = total week day beach users: 40,589

Divided by 4.6 people per group = number of week day user groups: 8,824

Less 13% for those how reported having a boat on Lake George = number beach user-only week day groups: 7,650

Weekend Average

Hour	Diamond Point Beach	Fort Ann Beach	Gull Bay Beach	Hague Beach	Hearthstone CG Beach	Huletts Landing Beach	Million Dollar Beach	Rogers Memorial Park Beach, Bolton	Rogers Rock CG Beach	Shepard Park Beach, LGV	Ticonderoga Beach	Usher Park Beach	Veteran's Park Beach, Bolton	Hour	Total User Count
9-10AM	11	2	3	13	19	8	65	74	30	57	4	25	39	9-10AM	
10-11AM	9	2	5	10	15	6	100	57	23	44	11	19	30	10-11AM	
11-12AM	14	3	7	16	24	10	162	93	37	71	16	31	49	11-12AM	
12-1PM	18	4	1	21	31	12	280	120	48	92	100	40	63	12-1PM	
1-2PM	22	5	7	26	39	23	260	149	59	114	151	50	78	1-2PM	
2-3PM	29	6	11	34	50	11	355	192	51	145	87	64	101	2-3PM	
3-4PM	32	7	11	37	54	18	445	215	88	161	49	70	112	3-4PM	
4-5PM	28	6	7	33	49	19	360	189	70	145	28	63	99	4-5PM	
5-6PM	8	2	4	10	14	6	97	55	32	42	25	18	29	5-6PM	
6-7PM	18	4	13	21	31	18	41	120	48	92	10	40	63	6-7PM	
User Count:	190	42	70	220	326	131	2,165	1,265	485	964	481	420	662		7,420

divide by 4 (avg 4 hrs per user):

1,855

Number of People visiting a Beach on Lake George on an Average Weekend Day:

1,855

Times 19 weekend days = total weekend beach users: 35,246

Divided by 4.6 people per group = number of weekend user groups: 7,662

Less 13% for those how reported having a boat on Lake George = number beach user-only weekend groups: 6,643

Total Estimated Beach Users, 2005: 75,835

Total Beach User Groups: 16,486

Total Beach User-Only Groups: 14,293

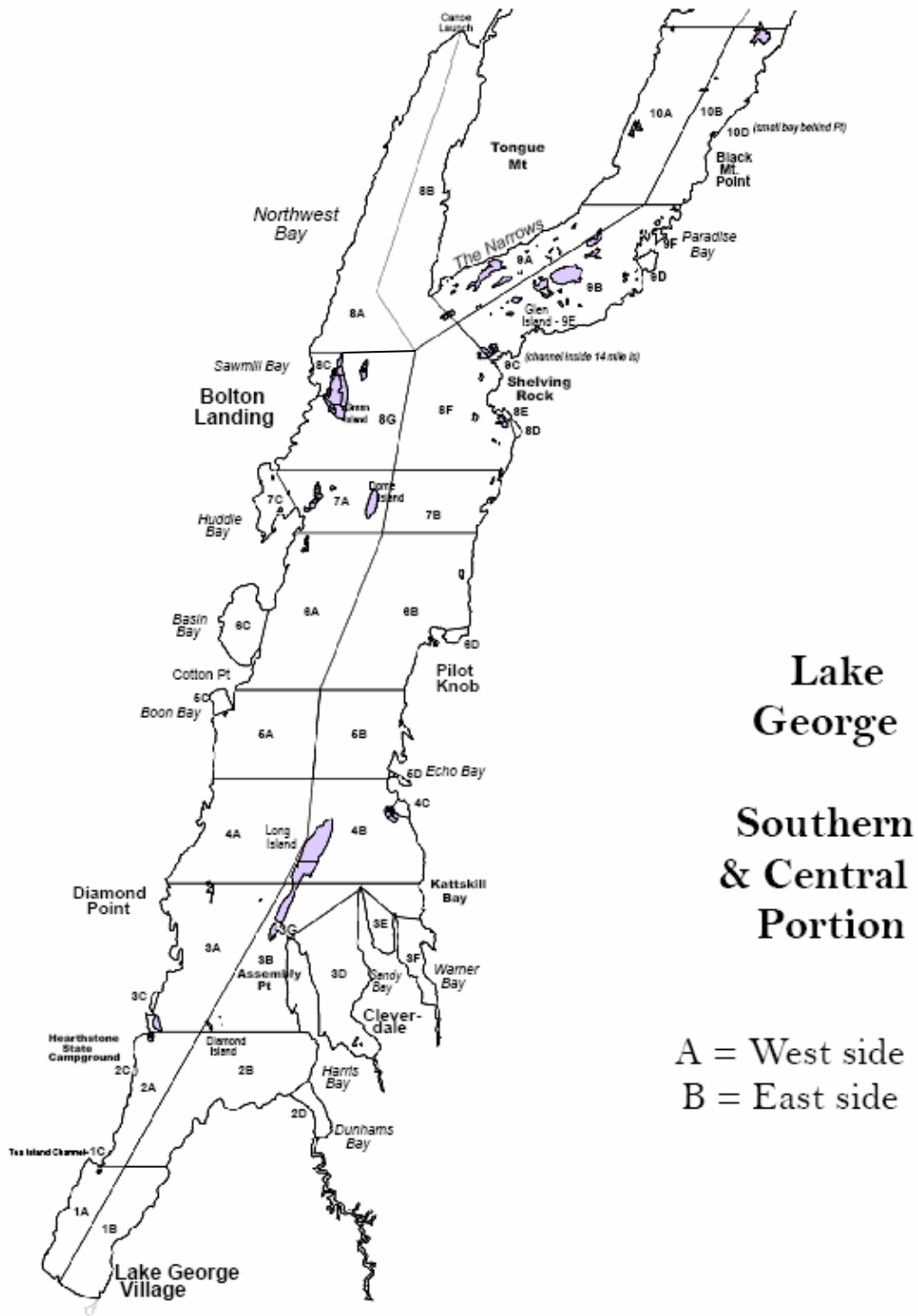
Data collected for the Lake George Park Commission (LGPC) 2005.
 Research directed by Holmes & Associates, Saranac Lake.
 Data analyzed by Human Dimensions Research Unit (HDRU), Cornell
 in cooperation with Holmes & Associates.

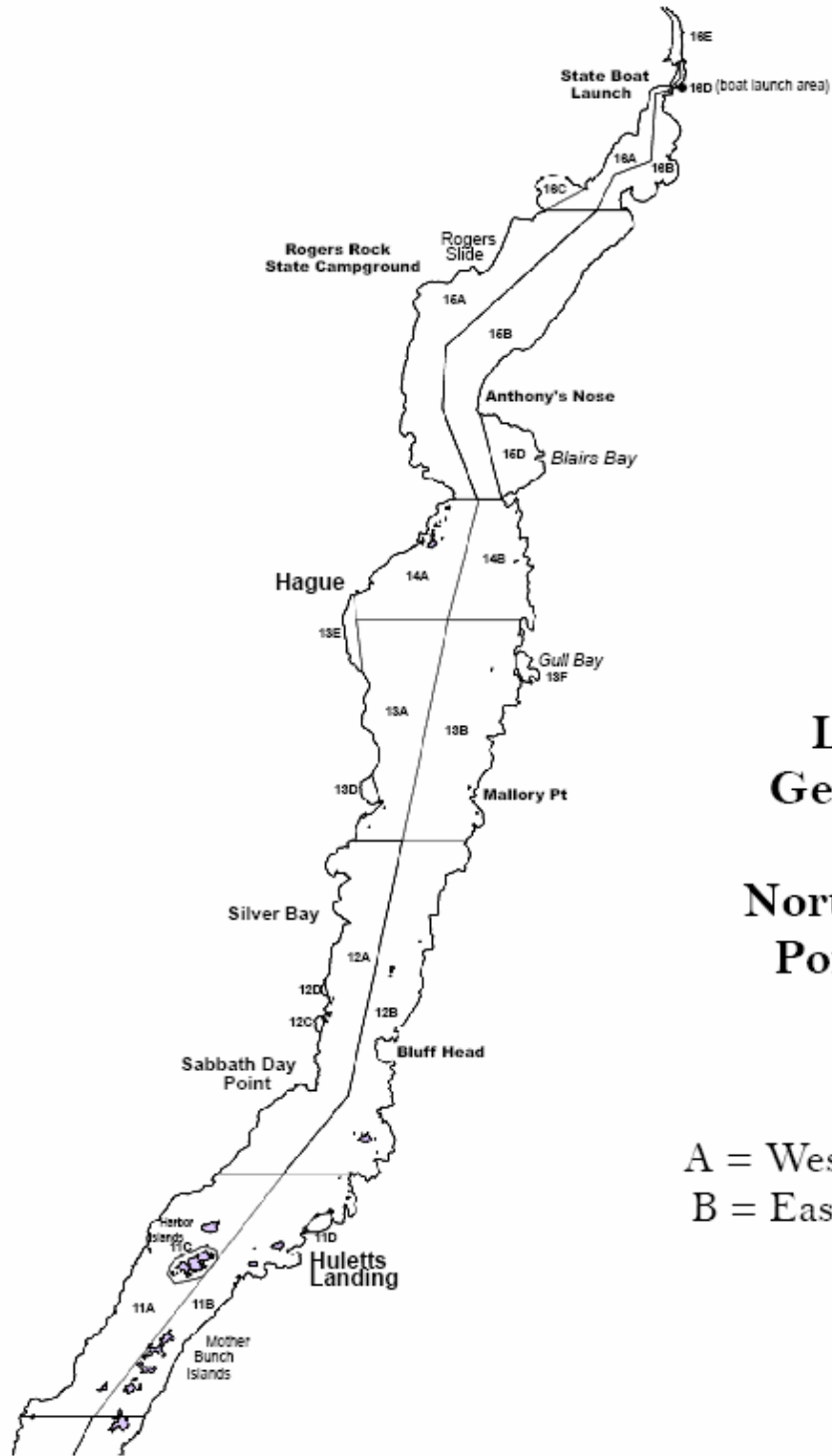
Divided by the number of average beach visits per group (11.5) = number of unique groups: 1,243

Appendix 9: The 67 Zones used to Define and Describe Geographic Use Areas on Lake George

LG Village west (1A)	Bolton Bay, Green Island (8G) - <i>new</i> -
LG Village east (1B)	Narrows west (9A)
Tea Island (1C)	Narrows east (9B)
Hearthstone area (2A)	14 Mile channel (9C)
Diamond Island east (2B)	Red Rock Bay (9D)
Hearthstone campground (2C)	Glen Island (9E)
Dunhams Bay (2D)	Dollar Islands (10A)
Cannon Point (3A)	Black Mtn Point (10B)
Assembly Point area (3B)	Paradise Bay (10C) - <i>was 9F</i> -
Still Bay (3C)	Black Mtn Bay (10D)
Harris Bay (3D)	Mother Bunch Islands west (11A)
Sandy Bay (3E)	Mother Bunch Islands east (11B)
Warner Bay (3F)	Harbor Island (11C)
Assembly Point channel (3G)	Huletts Landing (11D)
Long Island west (4A)	Sabbath Day Pt, Silver Bay (12A)
Long Island east (4B)	Bluff Head area (12B)
Elizabeth Island channel (4C)	Werners Bay (12C)
Rush Island area (5A)	Bass Bay (12D)
Whipple Island area (5B)	Pardo Point area (13A)
Boon Bay (5C)	Mallory Island area (13B)
Echo Bay (5D)	Arcady Bay (13D)
Cotton Point area (6A)	Hague Bay (13E)
Pilot Knob area (6B)	Gull Bay (13F)
Basin Bay (6C)	Waltonian Islands area (14A)
Andrews Bay (6D)	Rock Brothers Is, Browns Pt (14B)
Dome Island, Clay Island (7A)	Friends Point, Rogers Rock (15A)
Calf Pen area (7B)	Anthony's Nose, Weeds Bay (15B)
Huddle Bay (7C)	Blairs Bay (15D)
NW Bay west (8A)	Ticonderoga area west (16A)
NW Bay east (8B)	Ticonderoga area east (16B)
Sawmill Bay (8C)	Hearts Bay (16C)
Shelving Rock Bay (8D)	Mossy Point (16D)
Log Bay (8E)	north of natural dam (16E)
Huckleberry Island area (8F)	

Appendix 10: Maps Showing Lake George Lake Use Zones





Lake George

Northern Portion

A = West side
B = East side