

APPENDIX B

Results of Peppermill Lake Survey Summer, 2001 - Analyzed by J. Abbs (Number of returned surveys: 63 of 85)

Section One: Lake Use

1. Where is your property?

Percent of those who responded: **85.7% on lake, 14.3% within ½ mile**

2. What part of the lake is your property nearest to?

Percent of those who responded: **43% west end, 57% east end***

[*East and west end owners differed in opinions of water and fishing, see page 3]

3. How long have you owned property on Peppermill Lake? Of those who responded:

Mean = 11.6 years, SD = 9.51, Median = 8**

[** Length of ownership did not influence opinions on water and fishing quality]

4. What best describes the time you spend on Peppermill Lake? (% of those who responded)

Weekends-year round	Weekends-occasional	Year round resident
25.8%:	24.1%:	17.7%
Weekends - Summer	Vacations/holidays	Summer time resident
16.1%	9.7%	6.4%

5. Do you use the lake for recreation?: 98%: Yes, 2%: No

6. What types of recreation do you participate in on the lake? (check all that apply)

Fishing	Boating	Peace/solitude	Wildlife observation
76.1%	71.4%	69.8%	53.9%
Scenic enjoyment	Swimming	Entertaining	Walking
53.3%	44.4%	44.4%	33.3%
Ice Skating	Hunting	Sailing	Picnicking
6.2%	4.7%	3.1%	3.1%

7. Which of the following do you own and operate? (Check all that apply)

Fishing boat	Canoe/Kyak	Paddle boat	Pontoon
63.4%	41.2%	36.5%	28.5%
Sail boat or board	Ski boat	Jet Ski	
4.7%	0	0	

8. Please estimate gallons of marine gas used per year: Mean = 10.3 gallons, SD = 8.8

9. Largest horsepower motor operated on Peppermill Lake?: Mean = 20.2 HP, SD = 16.3

10. Do you support the NO WAKE regulation? Yes: 98.1, No: 1.9

Section Two : Water Quality & Fishing

11. Over the time you have owned property near the lake do you feel the water has:

Improved	Stayed the same	Declined
3.9%	45.0%	50.9%

12. In what way has the water quality changed? See Appendix A for individual comments

13. How would you rate the water quality on Peppermill Lake?

Excellent	Very Good	Good	Fair	Poor
16.6%	33.3%	33.3%	14.8%	1.5%

14. Which of the following do you think are major water quality problems facing the lake (check all that apply):

Weeds	Algae/scum	Water clarity
71.4%	26.9%	9.5%
Motor boats	Litter	
4.7	4.7%	

15. How would you rate the fishing on the lake?

Excellent	Very Good	Average	Fair	Poor
	13.9%	58.1%	23.2%	4.6%

16. How long have you fished Peppermill Lake? Mean = 12.5 years, SD = 9.0 years

17. How has the quality of fishing changed since you started?

Improved	Stayed the same	Declined
4.7%	50.0%	45.2%

18. In what ways has the fishing quality changed? See Appendix B for individual comments

19. If you indicated that water quality or fishing quality has declined, indicate which of the following issues, in your opinion, may have contributed to the decline. From the list below, provide the top three choices:

Water Quality Decline:

Ranking					
Development	Heavy recreation	Fertilizer use	Soil erosion	Septic systems	Herbicide use
1	2	3	3	4	4

Fishing Decline:

Ranking					
Recreation	Development	Soil erosion	Herbicide use	Fertilizer use	Septic systems
1	2	3	4	5	6

Sub-Analysis: Water Quality and Fishing Opinion variations with Location of Property

QUESTION 11 - EAST END

Over the time you have owned property near the lake do you feel the water has:

Improved	Stayed the same	Declined
7.4%	33.3%	59.2%

QUESTION 11 - WEST END

Over the time you have owned property near the lake do you feel the water has:

Improved	Stayed the same	Declined
4.7%	55.0%	40.0%

QUESTION 13 - EAST END

How would you rate the water quality on Peppermill Lake?

Excellent	Very Good	Good	Fair	Poor
10.7%	32.1%	35.7%	14.2%	7.1%

QUESTION 13 - WEST END

How would you rate the water quality on Peppermill Lake?

Excellent	Very Good	Good	Fair	Poor
21.7%	39.1%	26.0%	13.0%	0%

QUESTION 14: What do you think are the major water quality problems facing the lake

EAST END Percent checking WEEDS: 93% WEST END Percent checking WEEDS: 60..8%

QUESTION 15 – EAST END

How would you rate the fishing on the lake?

Excellent	Very Good	Average	Fair	Poor
	26.0%	52.1%	17.3%	4.3%

QUESTION 15 – WEST END

How would you rate the fishing on the lake?

Excellent	Very Good	Average	Fair	Poor
	4.7.0%	66.6%	23.8%	4.7%

QUESTION 16 - EAST END

How has the quality of the fishing changed since you started (fishing Peppermill Lake)?

Improved	Stayed the same	Declined
4.1%	45.8%	50.0%

QUESTION 15 - WEST END

How has the quality of the fishing changed since you started (fishing Peppermill Lake)?

Improved	Stayed the same	Declined
0%	64.7%	35.2%

Section Three: Lake Management/Land use

20. In your opinion, what should be done to restore, maintain or improve the lake?

See Appendix C

21. Who should be involved in making management decisions for Peppermill Lake? (check all that apply)

Lake shore residents	Lake group members	Watershed residents
68.2%	57.1%	28.5%
University personnel	State government	County government
25%	19.0%	17.4%
Local government		
15.8%		

22. Are you a member of a Peppermill Lake Group?

One Group	Neither group	Both Groups
52.7%	9.0%	38.1%

23. Are you comfortable with the work of the Joint Committee?

YES	NO
94.2%	5.7%

24. Comments on the Peppermill Lake Joint Committee. See Appendix D.

25. Do you maintain a lawn on your property?

Yes	No
72.5%	27.4%

26. Percentage of lot in mowed lawn? Mean = 39.7%, SD = 26.1, Range: 10% to 95%

27. Do you use fertilizer?

Yes	No
14.8%	85.1%

QUESTION 28. What do you fertilize? - Erratic responses

QUESTION 29. Closest distance from fertilized area to lake . Erratic responses

QUESTION 30. What best describes the location where your property meets the lake?

Natural landscape – undevel.	Lawn	Rock Rip-rap
67.4%	16.2%	6.9%
Landscaped trees/srubs	Retaining wall	
4.6%	2.3%	

31. If you have a undeveloped buffer strip how far from the lake into the property does it extend?
Mean = 33 feet, SD = 61 feet, Median = 10 feet

QUESTIONS 38-44 concerned septic systems and wells. Many respondees failed to answer these questions at and many who did only provided incomplete information. Data do not seem meaningful.