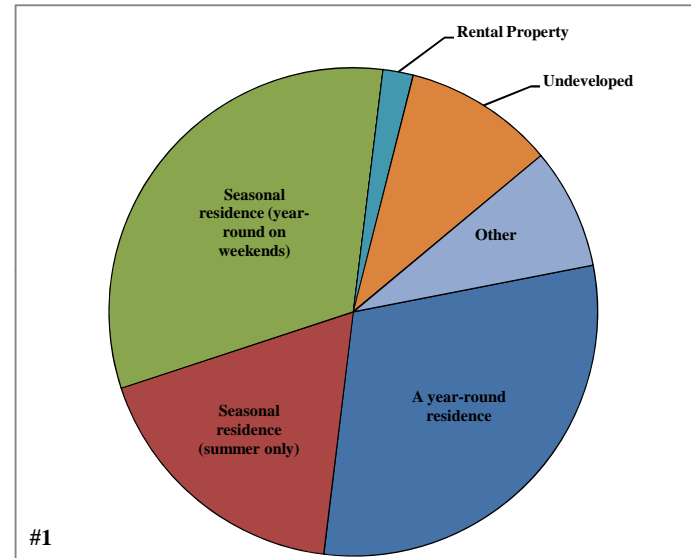


Returned Surveys	55
Sent Surveys	100
Response Rate (%)	55.0

#1 What type of property do you own on Horsehead Lake?

	Total	%
A year-round residence	15	30.0
Seasonal residence (summer only)	9	18.0
Seasonal residence (year-round on weekends)	16	32.0
Resort	0	0.0
Rental Property	1	2.0
Undeveloped	5	10.0
Other	4	8.0
	50	100.0



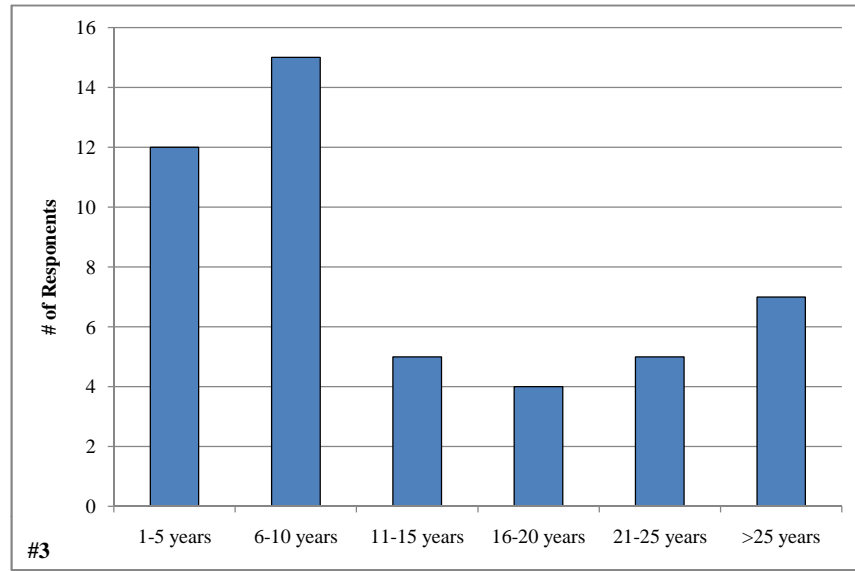
#2 If you are not a year-round resident, how many days each year is your property used by you or others?

Answered Question	29
Average	80.7
Standard deviation	75.5

#3 How many years have you owned property on Horsehead Lake?

- 1-5 years
- 6-10 years
- 11-15 years
- 16-20 years
- 21-25 years
- >25 years

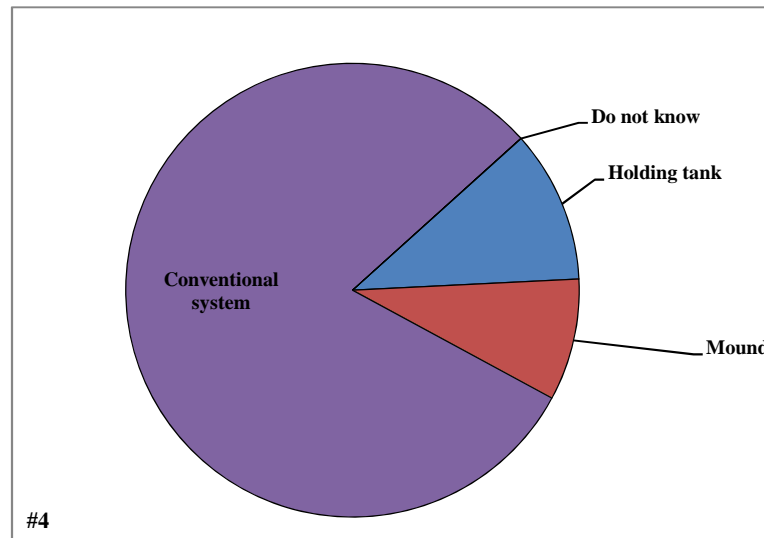
Total	%
12	25.0
15	31.3
5	10.4
4	8.3
5	10.4
7	14.6
48	100.0



#4 What type of septic system does your property utilize?

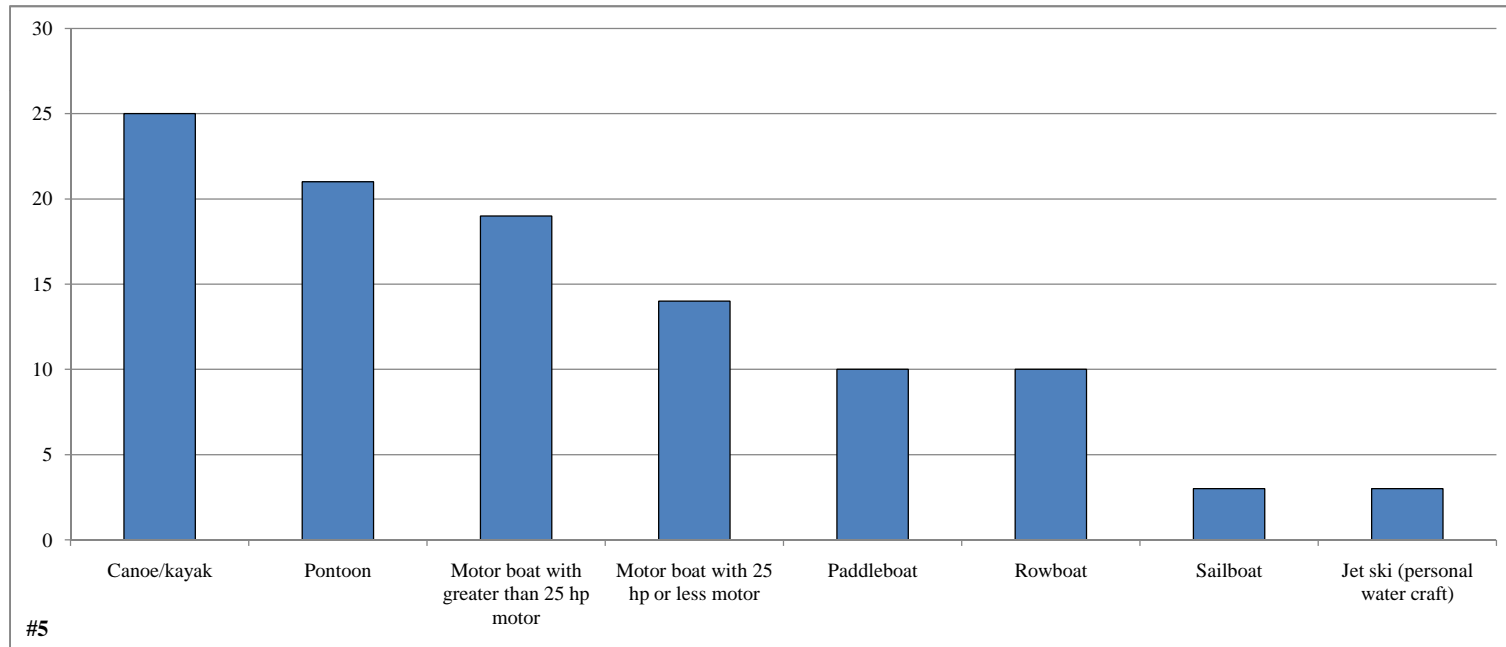
- Holding tank
- Mound
- Advanced treatment system
- Conventional system
- Do not know

Total	%
5	10.9
4	8.7
0	0.0
37	80.4
0	0.0
46	100.0



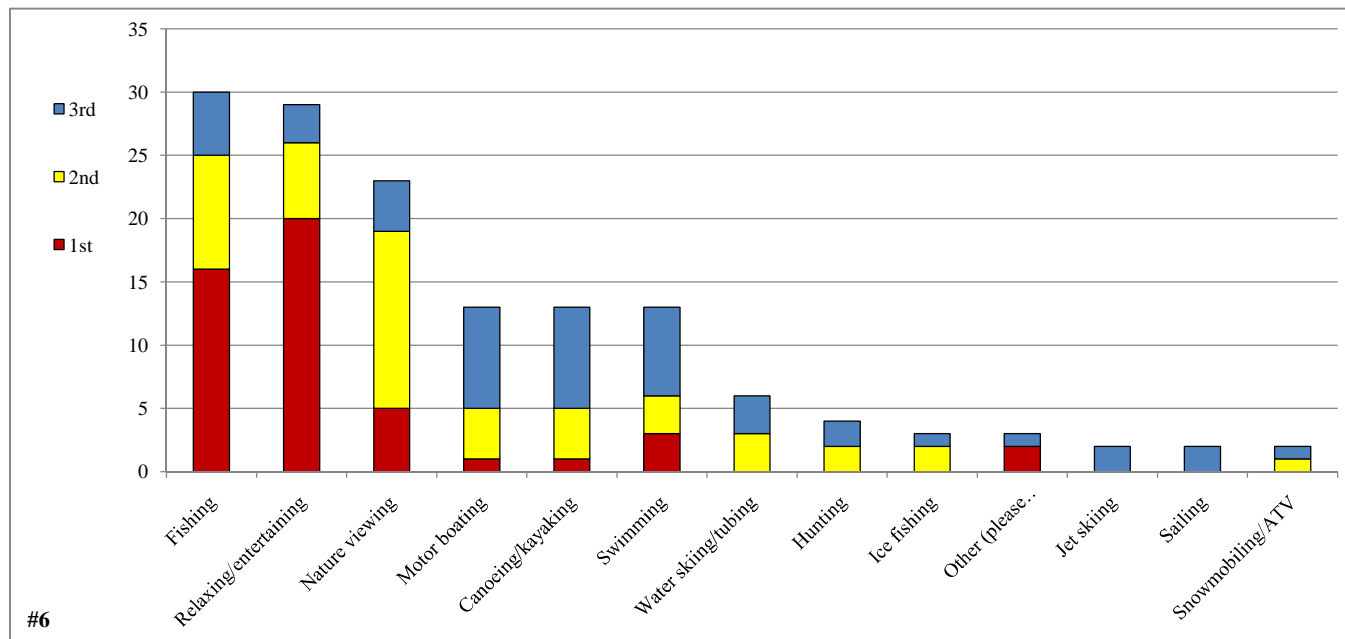
#5 What types of watercraft do you currently use on Horsehead Lake?

	<u>Total</u>
Canoe/kayak	25
Pontoon	21
Motor boat with greater than 25 hp motor	19
Motor boat with 25 hp or less motor	14
Paddleboat	10
Rowboat	10
Sailboat	3
Jet ski (personal water craft)	3
	<u>105</u>



#6 Please rank the activities below that are the most important or enjoyable to you on Horsehead Lake?

	1st	2nd	3rd	% ranked
Fishing	16	9	5	62.5
Relaxing/entertaining	20	6	3	60.4
Nature viewing	5	14	4	47.9
Motor boating	1	4	8	27.1
Canoeing/kayaking	1	4	8	27.1
Swimming	3	3	7	27.1
Water skiing/tubing	0	3	3	12.5
Hunting	0	2	2	8.3
Ice fishing	0	2	1	6.3
Other (please specify):	2	0	1	6.3
Jet skiing	0	0	2	4.2
Sailing	0	0	2	4.2
Snowmobiling/ATV	0	1	1	4.2
	48	48	47	

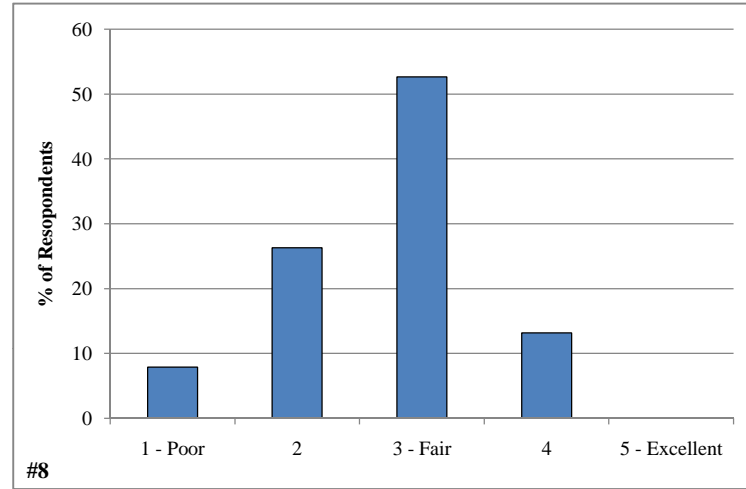


#7 Have you fished on Horsehead Lake in the past 3 years?

	Total	%
Yes	36	70.6
No	15	29.4
	51	100.0

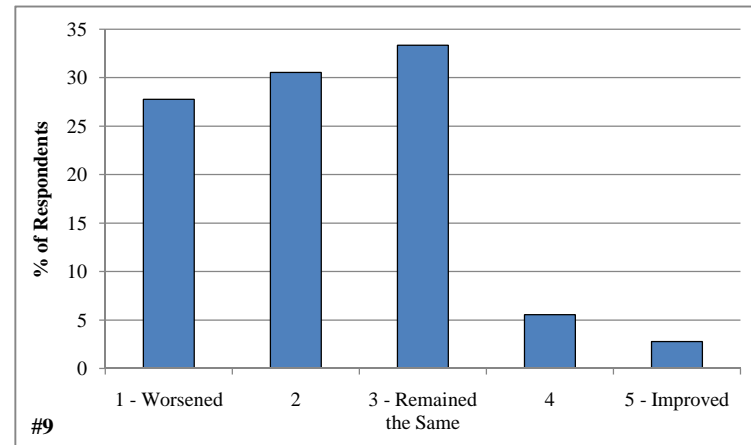
#8 How would you describe the current quality of fishing on Horsehead Lake?

	Total	%
1 - Poor	3	7.9
2	10	26.3
3 - Fair	20	52.6
4	5	13.2
5 - Excellent	0	0.0
	38	100.0



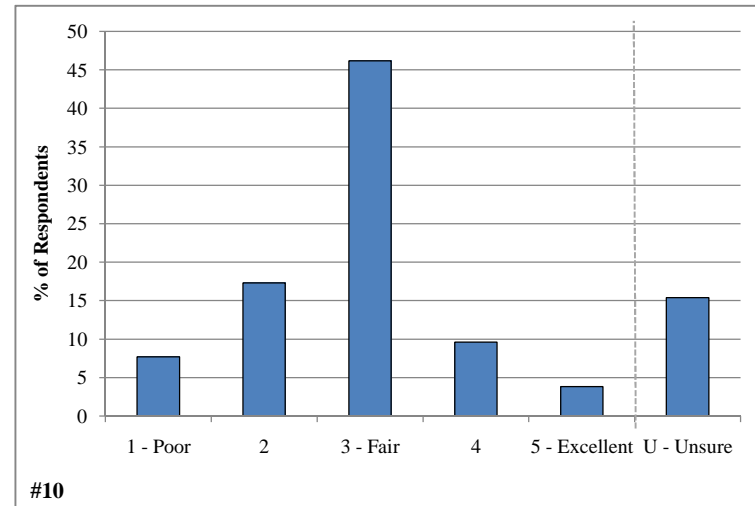
#9 How has the quality of fishing changed on Horsehead Lake since you obtained your property?

	Total	%
1 - Worsened	10	27.8
2	11	30.6
3 - Remained the Same	12	33.3
4	2	5.6
5 - Improved	1	2.8
	36	100.0



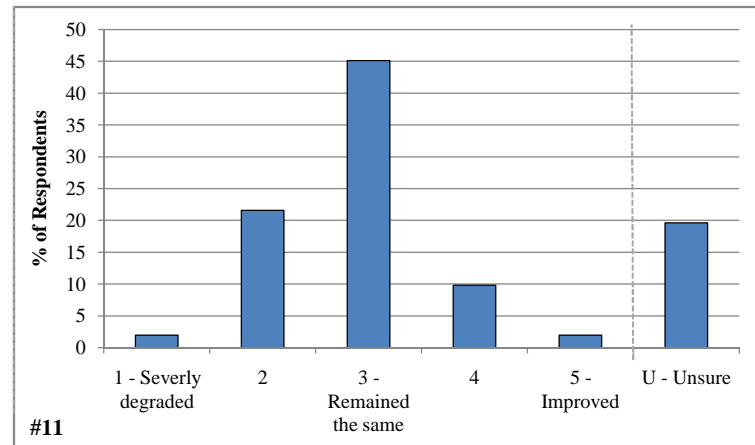
**How would you describe the current
#10 water quality of Horsehead Lake?**

	Total	%
1 - Poor	4	7.7
2	9	17.3
3 - Fair	24	46.2
4	5	9.6
5 - Excellent	2	3.8
U - Unsure	8	15.4
	52	100.0



**How has the water quality changed in Horsehead Lake since
#11 you obtained your property?**

	Total	%
1 - Severly degraded	1	2.0
2	11	21.6
3 - Remained the same	23	45.1
4	5	9.8
5 - Improved	1	2.0
U - Unsure	10	19.6
	51	100.0



#12 Have you ever heard of aquatic invasive species?

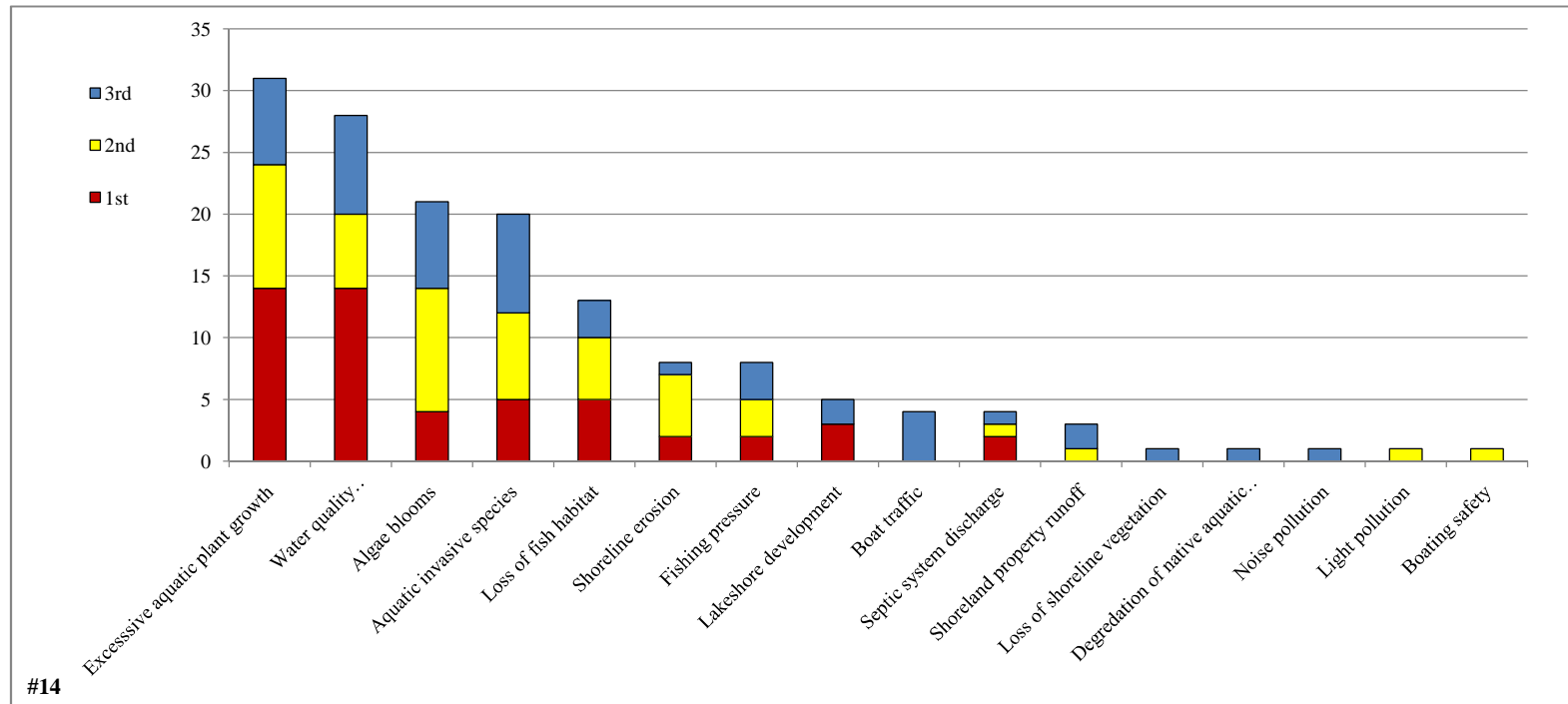
	Total	%
Yes	51	98.1
No	1	2.0
	52	100.0

#13 Are you aware of aquatic invasive species on Horsehead Lake?

	Total	%
Yes	31	63.3
No	18	36.7
	49	100.0

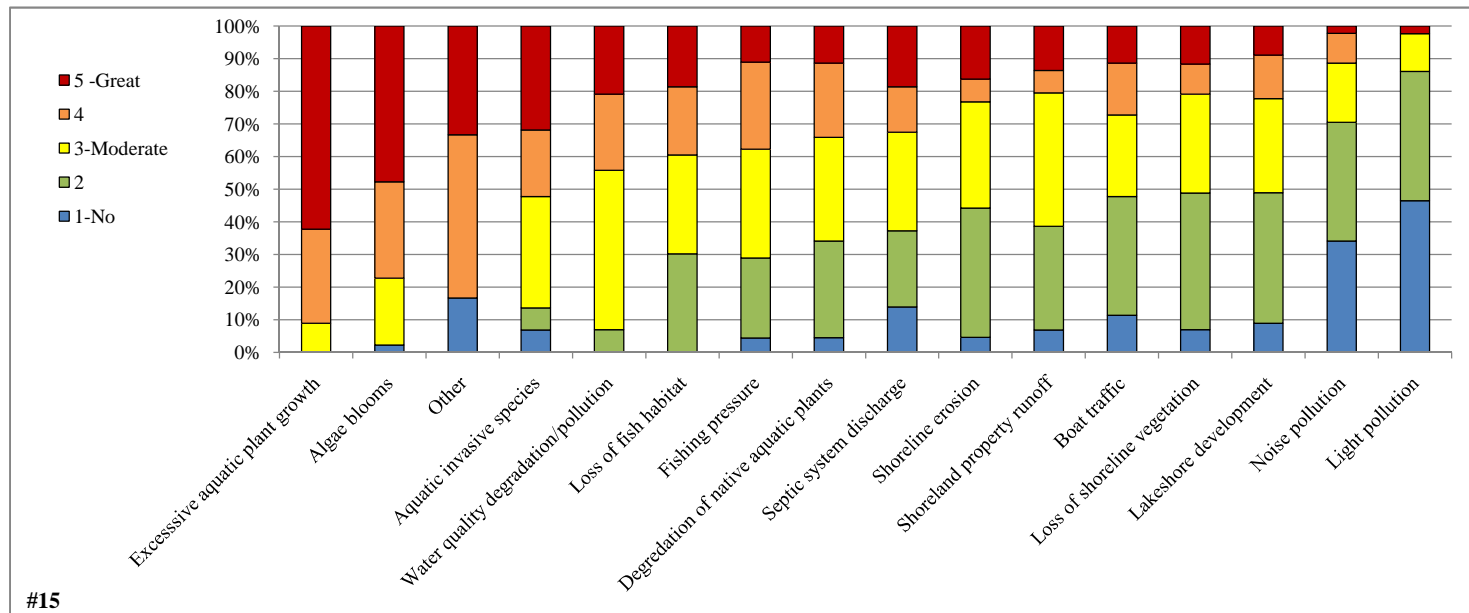
#14 From the list below, please rank your top three concerns regarding Horsehead Lake?

	1st	2nd	3rd	<i>% Ranked</i>
Excessive aquatic plant growth	14	10	7	62.0
Water quality degradation/pollution	14	6	8	56.0
Algae blooms	4	10	7	42.0
Aquatic invasive species	5	7	8	40.0
Loss of fish habitat	5	5	3	26.0
Shoreline erosion	2	5	1	16.0
Fishing pressure	2	3	3	16.0
Lakeshore development	3	0	2	10.0
Boat traffic	0	0	4	8.0
Septic system discharge	2	1	1	8.0
Shoreland property runoff	0	1	2	6.0
Loss of shoreline vegetation	0	0	1	2.0
Degradation of native aquatic plants	0	0	1	2.0
Noise pollution	0	0	1	2.0
Light pollution	0	1	0	2.0
Boating safety	0	1	0	2.0
	51	50	49	



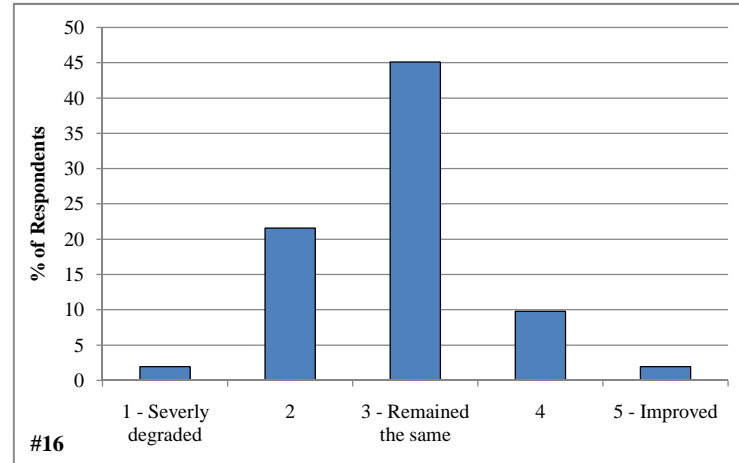
#15 To what level do you believe each the following factors are negatively impacting Horsehead Lake?

	1-No	2	3-Moderate	4	5 -Great	Total	Average
Excessive aquatic plant growth	0	0	4	13	28	45	4.5
Algae blooms	1	0	9	13	21	44	4.2
Other	1	0	0	3	2	6	3.8
Aquatic invasive species	3	3	15	9	14	44	3.6
Water quality degradation/pollution	0	3	21	10	9	43	3.6
Loss of fish habitat	0	13	13	9	8	43	3.3
Fishing pressure	2	11	15	12	5	45	3.2
Degradation of native aquatic plants	2	13	14	10	5	44	3.1
Septic system discharge	6	10	13	6	8	43	3.0
Shoreline erosion	2	17	14	3	7	43	2.9
Shoreland property runoff	3	14	18	3	6	44	2.9
Boat traffic	5	16	11	7	5	44	2.8
Loss of shoreline vegetation	3	18	13	4	5	43	2.8
Lakeshore development	4	18	13	6	4	45	2.7
Noise pollution	15	16	8	4	1	44	2.1
Light pollution	20	17	5	0	1	43	1.7



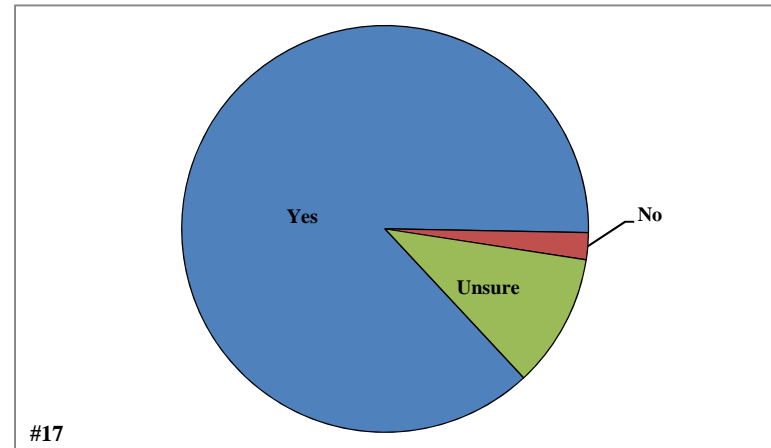
**How often does aquatic plant growth impact
#16 your recreational use of Horsehead Lake?**

	Total	%
1 - Never	3	6.1
2	0	0.0
3 - Sometimes	12	24.5
4	22	44.9
5 - Always	12	24.5
	49	100.0



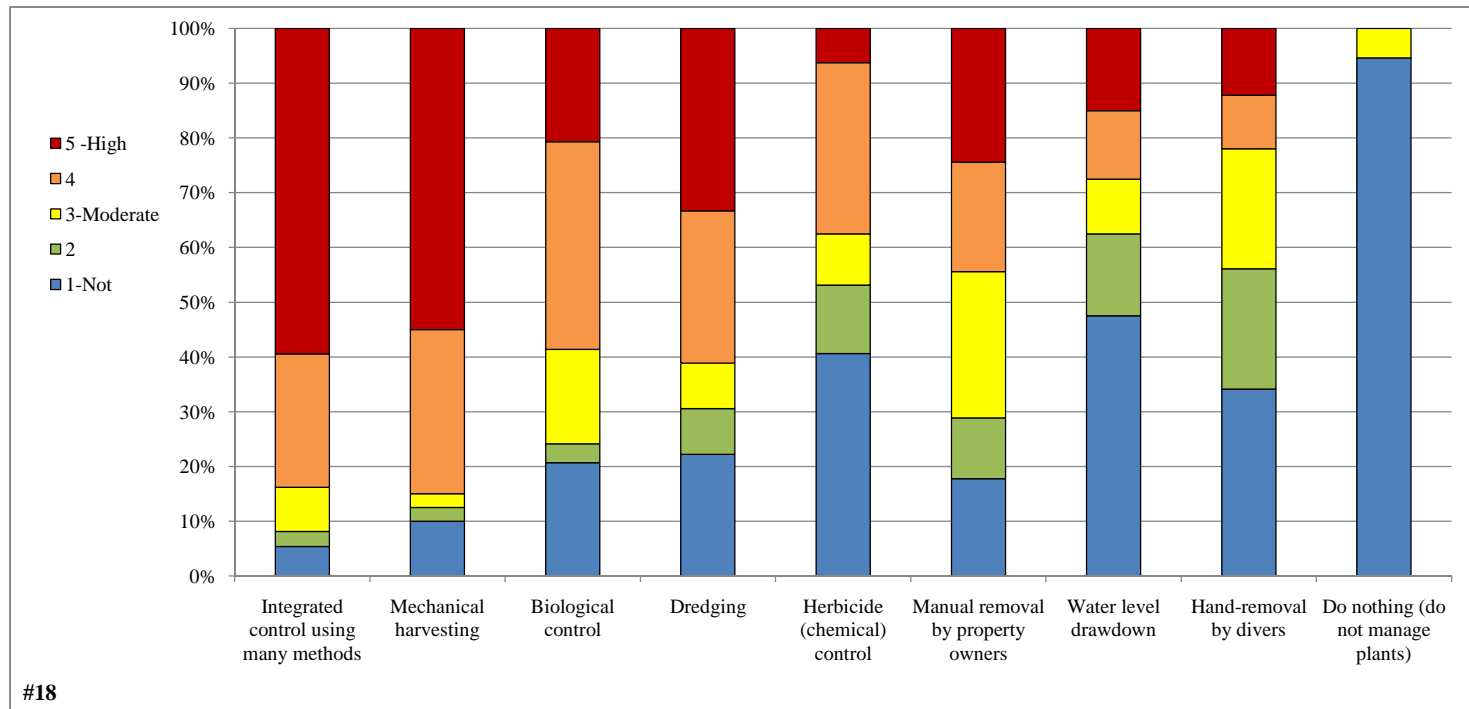
**Considering your answer to the question above, do you believe
#17 aquatic plant control is needed on Horsehead Lake?**

	Total	%
Yes	41	87.2
No	1	2.1
Unsure	5	10.6
	47	100.0



#18 What is your level of support for the responsible use of the following techniques on Horsehead Lake?

	1-Not	2	3-Moderate	4	5 -High	<i>Total</i>	<i>Average</i>
Integrated control using many methods	2	1	3	9	22	37	4.7
Mechanical harvesting	4	1	1	12	22	40	4.5
Biological control	6	1	5	11	6	29	4.4
Dredging	8	3	3	10	12	36	4.1
Herbicide (chemical) control	13	4	3	10	2	32	3.8
Manual removal by property owners	8	5	12	9	11	45	3.5
Water level drawdown	19	6	4	5	6	40	3.1
Hand-removal by divers	14	9	9	4	5	41	3.0
Do nothing (do not manage plants)	35	0	2	0	0	37	1.6

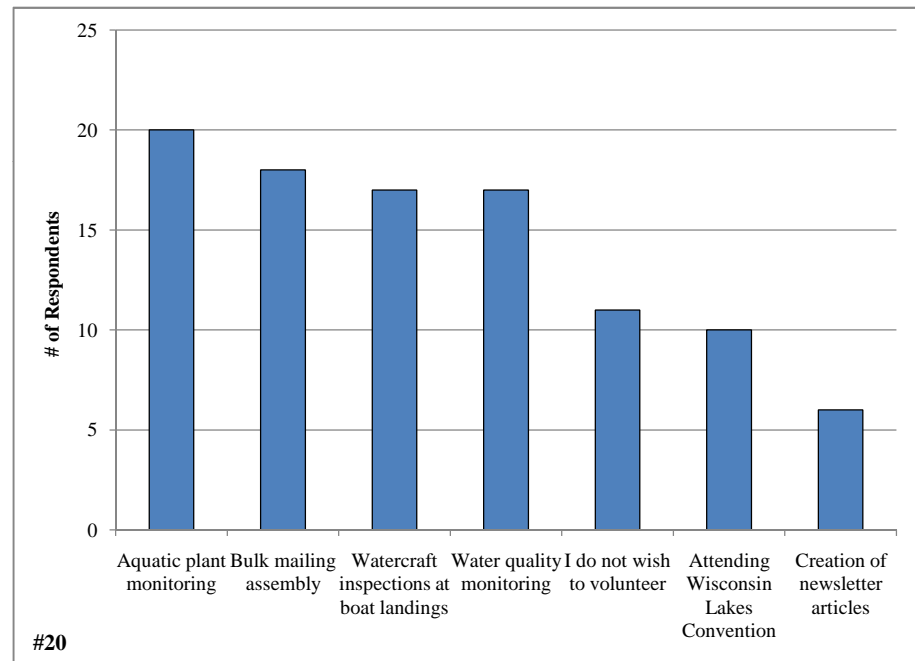


#19 Before receiving this mailing, have you ever heard of the Horsehead Lake P&R District

	Total	%
Yes	43	82.7
No	9	17.3
	<u>52</u>	<u>100.0</u>

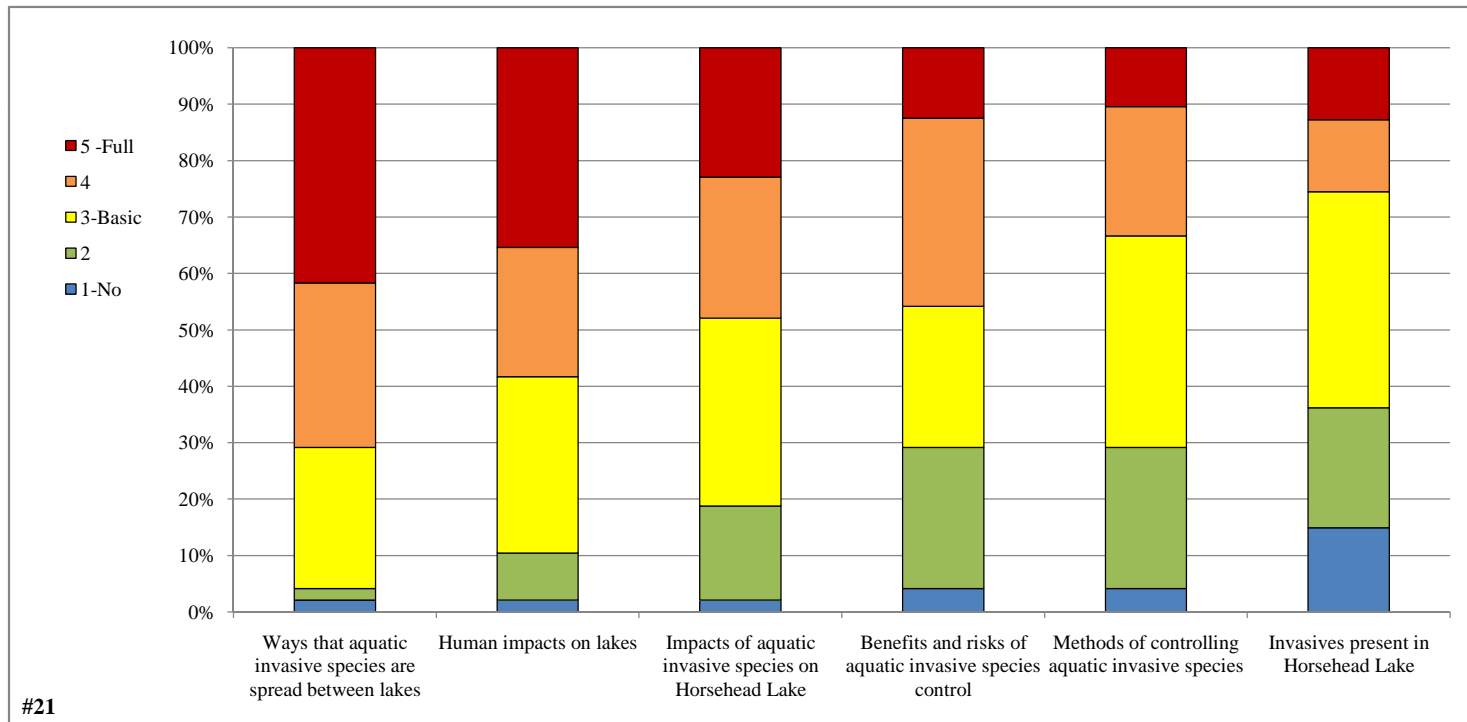
#20 Please circle the activities you would be willing to participate in if called upon.

	Total
Aquatic plant monitoring	20
Bulk mailing assembly	18
Watercraft inspections at boat landings	17
Water quality monitoring	17
I do not wish to volunteer	11
Attending Wisconsin Lakes Convention	10
Creation of newsletter articles	6
	<u>99</u>



21. Please describe your level of understanding of each of the following lake management issues.

	1-No	2	3-Basic	4	5 -Full	<i>Total</i>	<i>Average</i>
Ways that aquatic invasive species are spread between lakes	1	1	12	14	20	48	4.1
Human impacts on lakes	1	4	15	11	17	48	3.8
Impacts of aquatic invasive species on Horsehead Lake	1	8	16	12	11	48	3.5
Benefits and risks of aquatic invasive species control	2	12	12	16	6	48	3.3
species	2	12	18	11	5	48	3.1
Invasives present in Horsehead Lake	7	10	18	6	6	47	2.9



Survey Number	Comment	Question Specific Comments
1		
2		#15p: Too many weeds
3	Again the extensive weed problem is really a concern to me. It seems that increasing the water depth by 5 to 10 feet would really help. I know the DNR doesn't like dredging but I would hope they'd take a rational and logical approach and see that's the best answer. It seems only a matter of time before the lake succumbs to the over whelming quantity of the weeds and becomes a dead lake.	
4	Our concerns are mainly with weed growth and water clarity. We would like to do more slow leisurely boating and some swimming but those two concerns severely limit us from boating and swimming. We are truly grateful for the effort being put forth to help our lake be the best it can be. You're heading in the right direction. Good job! To protect my investment, I'd pay more to have the weeds controlled.	
5		
6		
7		
8	There has been a great increase of weeds in shoreline since we have not had draw downs. Shoreline erosion has also been effected.	#15p: Water level More water will help the lake
9	My feeling is the past practice of draining down the lake and leaving the water level low (because some property owners on the Board refuse to protect their own shoreline) has brought about the current situation. We need to fix the problem and it is going to cost money. Let's get a plan together and implement it. Make a special assessment to pay for it. Get the lake level up and let's dredge out the crap on the bottom so we have some depth. Thank you!	
10		
11		
12		
13		
14		#1g: year-round resident w/o lake access or frontage
15		
16		
17		
18		
19	Since we do not own property on Horsehead Lake we do not use it. Since we are in the P&R district we are taxed the same - a few years ago taxes were voted to increase. We were a minority against it. It is a joke to be taxed for a lake we do not use, yet dozens outside the district use, as evidenced by overflow at the launch when fish are biting. We are concerned about lake issues in Oneida/Vilas county but please do not think of raising P&R taxes again.	
20	Education regarding the variability of natural biospheres and the year over year changes that are within acceptable ranges is a necessary part of a program such as this. We are looking for long term positive change or at least preventing additional negative changes in water quality.	
21		#15p: high lake level
22	Thank you for all you do for the lake.	#6m: a,c,d,e,f,g,h,j,k, were all circled
23	Thank you for asking our opinion and keeping owners informed.	
24		#6m: pontoon #15p: level of water should be max!
25	Weed growth, algae bloom, color and odor of lake is worse in the heat of the summer because of the shallow water levels. Thank you fro doing all this work to improve our lake!	
26	It seems that the quality of fishing has deteriorated in recent years. I would like to see is lower limit level set on pan fish to provide better fishing opportunities for years to come.	
27	My opinion and I know everyone has one but I feel that a certain group of stakeholders want to control the lake as their own little lake. The part timers are treated like 2nd rate citizens -some people want no wake-and half the lake for kayaking etc. We bought this property for our children and grandchildren to enjoy, such as waterskiing, tubing, fishing - not just to look at. These people should buy a picture of the lake hang it on the wall and look at it. What fun!	
28	I have not been on lake for 30 years and I don't know nothing about it.	
29		#15p: Winter kill/virus
30	I have two major concerns that affect my family's enjoyment of the lake. But let me start by saying that I love the lake and we enjoy it very much. Major concerns: Even a moderately warm summer seems to mean relatively cloudy and weedy conditions in the lake. Of course, this stems partly from our lake being rather shallow. This also creates the strong probability of significant winter kill. these factors tell me that we need to actively and sometimes aggressively manage the lake. The other issue relates to fishing. I am concerned about the size distribution of the pan fish on the lake. There are lots of fish and I don't think that pressure is to blame, although it may be a factor. I understand that in many ways the lake is "young" as currently defined with the construction of the dam. Yet the changes over the last 15 years to the fishery are quite extreme. (I fished on the lake before owning property). I hope that the lake study can provide some indications as to the issues. The species on the lake seem to be, if anything, more in balance than before. The northern numbers are down a bit, along with bass due to winter kill. Maybe that has led to an over abundance of "stunted" pan fish? I don't know. there	
31		

Survey Number	Comment	Question Specific Comments
32	I do not live on the lake, cannot see the lake or have I ever used the lake.	
33	Thank you for your commitment to our lake and taking time to put this survey	#6m: ski or snowshoe on the ice in winter
34	Water quality has increased since the weeds were cut last summer	
35	In June the water is clear and weed free. By August it resembles a swamp! We harvest already but doesn't seem to help. It was never like this years ago. What has caused it? Could it be the aerators?!	
36	Thank you for doing this survey and for coordinating the management and protection of Horsehead Lake! Please keep up the good work you have been doing.	
37	In my years of Horsehead Lake the biggest thing that always comes to mind is always the weeds and then water clarity. I would really like to see a major impact to clean up of these two issues.	
38		
39		
40		
41		#15p: shallow lake -big motor boat traffic very harmful
42	1. The lake needs some deep holes and a few more islands. 2. Management of fishing should focus on ways to increase pan fish size, the N. Pike and bass fishing is fine. The pan fish have been stunted since the late 80's. 3. The dam across Horsehead Creek should be replaced with a bottom emptying dam, this would help the siltation problem. 4. Public lands on north and south ends of lake need to be protected, not sold or traded to the town.	
43	Our sincere gratitude and accolades for Kris and Dennis Bathclelet's efforts.	
44	Thank you for all your time concerning this issue - it is very important that the lake is managed by people who have a concern for the present and future. When the time comes we will be moving there and we can be of more help to everyone.	
45		
46	Every year it is different with the conditions of the lake. It depends on how many sunny days we have - temps- how early is ice out. The aerator system has helped with the fish population. We haven't had a big fish kill for some time. The present level of the lake is much better for shoreline erosion. The water study done about 15+ years ago showed that we didn't have pollution from septic systems. We have great fish habitat.	#6m: trout stream fishing #15p: full time resident property owners
47	Many dollars have been spent over the years with absolutely no results. *Horsehead Lake is a man made flowage. *Removed the dam and return it to it's natural state.	
48	1. Use crayfish to control weeds? 2. Can we put some other species of fish in the lake? (walleye) 3. Put a limit on the croppies and pan fish that can be harvested on our lake that will allow them to grow bigger and we can all enjoy nice big fish. Limit 10 per day per person.	
49		
50		
51	We think Horsehead Lake is a wonderful lake. Our only complaint would be how weedy it is. Keep up the good work!	
52		
53		
54		
55		