

Perch Lake Owner's Association  
2017 Annual Membership Meeting  
July 2, 2017

1. The Annual meeting of the members of the PLOA was held on Sunday, July 2<sup>nd</sup> at the Foster camp at 10:00 AM. Door Prizes for each camp included a bag of Perch Lake Popcorn from Nancy, a handmade scrubby from Becky and a fruitcake from Carol. With the 13 new members, we were not able to meet the quorum of 20 members, as there were only 15 members present. Any action needing a vote will have to be completed electronically.
2. Motion by Bill Pence, seconded by Margo to accept the Agenda. All present accepted the minutes.
3. A Motion by Bill Pence, seconded by Becky for last year's minutes (July 3 2016) as published on the web and copies provided. All present accepted the minutes without change.

4. **Officers Reports:**

**a. Presidents Report**

New members are up to 13 with a limit of 14. It is nice to see the interest in PLOA's future. We need ideas or a plan to determine the effectiveness of the containment system. Students and Professors from Purdue University met with Dave and Jim in May. They came back in June and placed some Plastic weeds hoping to simulate the invasive weeds in the containment. If anyone finds these let Dave know. The National Forest had good news in that all roads/ trails concerning us will be open to all vehicles in November. (SUBSEQUENT TO OUR MEETING, CLIFF FOUND OUT THAT THE MAP CHANGES AREN'T EFFECTIVE UNTIL THE SPRING OF 2018). A link to the National Forest website will be available on our website. Dave's full report is attached.

**b. Secretary's Report**

The Minutes are published on the web. It has been extremely interesting to serve on the Board, volunteering for projects and meeting people from DNR, NFS and other agencies all working together to keep our lake healthy for the future. I encourage others to get involved in the PLOA. I can actually say I enjoy coming to the lake more now that I know more about the lake and the people who enjoy it.

**c. Treasurers Report**

The current balance in the administration account is \$4,220.89 and the 501(c)3 has a balance of \$8,809.44. Hal reminded us that our membership year is July 1<sup>st</sup> to June 30<sup>th</sup> for membership dues and our fiscal year is the calendar year. The Insurance Company combined D & O and Liability premiums into one so unless he hears otherwise he will split 50/50 admin and 501(c)3 for payment. Mike O'Brien made motion, seconded by Al Madsen to accept Treasures report. All present accepted the report.

**d. Committee Reports**

**Communications Committee**

Tom Haight encouraged us to send pictures and articles about the lake so he can continue to have a newsletter. We thanked him for his wonderful work, as everyone enjoys getting the brochure. Tom states he has PLOA membership signs if anyone wants one.

**Lake Management Committee**

Each Member received a packet of materials on topics important to the meeting including; Agenda, Presidents Report, Cooperative Lakes Monitoring program 2016 Data Report, Iron County Lakes and Streams partnership letter and enrollment form, map showing weed survey and Purple Loos strife locations, crayfish trapping data, Perch lake 2016 CLMP Results from Cooperative Lakes Monitoring Program, Lake Management Expenditures report, Protecting Lake Shorelines workshop at Watersmeet information. Horseshoe tournament and fall color Ride info.

Lake management expenses for this year have been \$1,042.89 for supplies, gift certificates, lunch, and printing costs.

We are beginning our 8<sup>th</sup> year doing the CLMP testing only one time did the test reveal low oxygen and that was taken with a stagnant weather pattern. Thanks to Mike O for assistance. We could use more volunteers to do some testing.

The containment system was installed May 12th without incident. Improvements were made by adding enhanced posts bases on 4 posts, installing the net placement on the south boom outside of the posts, and repairing netting on north boom.

There will be a plant inspection of the containment system by a professional costing \$400.00 before the Oct 5<sup>th</sup> removal. This will enable us to tow the booms in the lake to storage without endangering the lake.

A committee was formed to problem solve some problems at the boat landing and the future of our commitment. Mike O'Brien, Hal Petrimoulx, Ted Brzezinski, Tom Van Wagner and Cliff Janiak have agreed to that committee with Dave and Jim.

Oct 5<sup>th</sup> is our scheduled take out date so mark your calendars we need volunteers. It is a fun day, work is not hard but many hands are needed because of the size.

If you do an inspection of the containment it wouldn't hurt to go to the parking lot and inspect the trailers. Send any pertinent information to Jim.

Jim and Dave met with professors and students from Purdue who are working out of Hagerman Lake. Jim asked them for ideas or a plan to determine the effectiveness of our project hoping someone would like to do a study on it. We are still looking although the Purdue students did come back and place plastic weeds to get an idea. So if anyone finds some unusual plastic weed like things please give to Jim, Dave or Cliff who will know what to do with them.

We conducted a plant survey of the south bays and no invasives were found and now we have a base for future use. Each year different areas will be surveyed. Also on Sept 6<sup>th</sup> there will be a group organized to tackle the purple loosestrife plants. This will be a tough job but very important to contain that invasive too. Watch for signup sheets on the web for both of these events.

It was suggested to do a survey on line to find out what people are interested in what they expect our organization to be doing. Jim needs to back off some of the things he does and needs help if we want to continue.

Jim represents PLOA on the Board of Directors for the Iron County Lakes and Streams Partnership. They meet once a month to handle business, plan projects and exchange news. They helped with the containment project, they encourage involvement in Cooperative Lakes Monitoring program, hold training programs and do school and community outreach. They coordinate between other area organizations. Read more about them on attached memo and consider becoming a member for \$10 per year.

Jim will be organizing an ATV ride for a fall color tour with date to be determined, more info in packet.

**2017 Quinn Camp Horseshoe Tournament** will be September 3<sup>rd</sup> beginning at 1:00 pm RSVP to 847-678-4374 email: [quinncan@ameritech.net](mailto:quinncan@ameritech.net) no later than August 25

**Outreach and Membership committee:**

Cliff has exhausted the potential new membership as everyone has been contacted several times.

**e. Old Business:**

1. Boat Launch Containment System is scheduled for October 5, 2017 and the Spring 2018 Installation will be determined at the fall BOD meeting. Margo volunteered to organize the lunch for the removal this October.

2. Historian position in PLOA. Cliff has done a lot of searching and found nothing at the Historical Society on Perch Lake so he will be depending on word of mouth stories. If anyone talks with the older residents on the lake ask about some stories and share with Cliff. I'm sure we can gather some good information

**3.** Perch Lake River Monitoring; After requests for data the only thing we have received is for the year 2015 They show no change from May – November, we have questioned the DEQ but have no answers yet.

**4.** Friends of Perch Lake: We Now have 38 members, 13 new “young” people we welcome with open arms and many friends of Perch Lake. We have been receiving many “Atta Boys” from people who use the lake and like what they see. One even called Dave to ask about Muskies. Because he thought he caught one and he heard we were planting fish in the lake. Dave explained we had planted 554 --- 7” to 8” walleyes on October 22, 2011 and in May 2016 --- 750 Black Crappie were planted and followed the proper Michigan DNR protocol and did not plant Muskies.

**5.** Upcoming Meetings:

- a. Summer Board Meeting immediately following annual meeting
- b. Fall board meeting October 7, 2017

**f. New Business:**

**1. Election of New Board Members:** Tom Haight agreed to continue on the Board. Mike O’Brien and Colleen Quinn were nominated by Margo to replace Bill Pence and Carol Hicks-Brown. The vote will have to be done electronically as there was not a quorum for approval.

**2.** It was suggested that some kind of communication, maybe texts, to know when someone from Perch Lake is going to town to pick up things like bread and milk instead of many people making separate trips to town.

**3.** Put a link to the MVUM update webpage on the PLOA website.

Al Madsen made motion to adjourn and Margo seconded as everyone dashed to get the wonderful door prizes.

Respectfully submitted by  
Carol Hicks – Brown

Enclosures:

1. Agenda
2. President’s report
3. Treasurer’s report
4. Lake Committee report

**AGENDA**  
**Perch Lake Owners Association (PLOA)**  
**Annual meeting July 2, 2017**  
**Held at the Foster Camp at 10:00 AM**

1. Roll Call for Quorum-50% of 38 registered members (sign-in sheet) – Dave
2. Adoption of Agenda – All
3. Review and Approve previous (JUL2016) Annual Meeting minutes – All
4. Officers' Reports
  - a. President's report – Dave Foster
  - b. Secretary's report – Carol Hicks-Brown
  - c. Treasurer's report – Hal Petrimoulx
5. Committee Reports
  - a. Communications Committee – Tom Haight
  - b. Lake Management Committee – Jim Novitski
  - c. Outreach & Membership committee – Cliff Janiak
6. Old Business
  - a. Boat launch Containment System – Removal scheduled for October 5, 2017 and the Spring 2018 Installation will be scheduled at the Fall BoD meeting.
  - b. Historian position in PLOA
  - c. Perch Lake/River - Water Level Monitoring
  - d. Friends of Perch Lake
    - i. We now have 38 members and many friends of Perch Lake. Let's share some success stories about Perch Lake.
  - e. Upcoming meetings
    - i. Summer board meeting immediately following annual meeting
    - ii. Fall board meeting – October 7, 2017
7. New Business
  - a. Election of New Board Members – re-elect/replace Board of Directors Class 2 – Tom Haight, Carol Hicks-Brown and Bill Pence
  - b. Ottawa National Forest Motorized Vehicle Use Maps (MVUM) update
8. Additions to the agenda
9. Adjourn
10. Collection of dues and Summer Board meeting
11. Don't forget your Door Prize for attendance at annual meeting

**President's Report for PLOA JULY 2017**  
**Annual & Board Meetings**

- a. **New members of PLOA** – We have 12 new members since our last annual meeting. The limit is 14 new members. It is very nice to see the interest in PLOA's future. We want to insure all the new members feel welcomed and hope to see them at the picnic.
- b. **National Forest Service (NFS) Boat Launch monitoring and control program**  
The installation occurred on May 12th with 18 volunteers. Jim made some revisions to some of the southerly posts to help resist the strong south winds last summer. There is always something new each year to address and this year we have had more issues with the northern wall. We will keep addressing the small failures and eventually have better equipment and ideas for the following years. Purdue University professors and students met Jim and me at the boat launch in May and Jim asked them for ideas or a plan to determine the effectiveness of our system. They came back in June and met with Cliff Janiak to place some plastic weeds, hoping to simulate the containment of any invasive weeds.
- c. **Ottawa National Forest Motorized Vehicle Use Map (MVUM) update** – The Forest Service is proposing to make designation changes to some motorized access routes in the Ottawa National Forest. The Ottawa's MVUM was first established in April 2007 to be compliant with the 2005 Travel Management Rule. The Environmental Assessment (EA) was released on May 31<sup>st</sup> and I sent out a link and a copy of the EA to the Perch Lake family. The good news is that the EA determined that an Environmental Impact Statement would not be necessary and that all the roads/trails concerning us would be open to all vehicles. The website shows an expected implementation of November 2017. The NFS was very responsive to all our comments and it appears that the roads into all our camps will be open to all vehicles.
- d. **PLOA Website** – The website is up and running. The activity sign-up option is working and many people have used it for the containment monitoring and the weed survey at the south end of the lake. We will ADD the member list with all the contact information to the MEMBERS only page and this needs to be finalized at the BoD meeting. We are still working on ADDING a "RECIPE" page under the "members only" page. Feel free to send any other comments or suggestions to me at [dnfoster@charter.net](mailto:dnfoster@charter.net) or (616)844-5157 as a text or call.

Sincerely, Dave Foster

## Summer Treasurers Report 2017

	Administrative Account		Withdrawal Detail	501C3 Account		Withdrawal Detail
	Deposit	Withdrawal		Deposit	Withdrawal	
<b>Prior Reported Balance</b>	<b>\$ 2,488.61</b>			<b>\$ 8,123.75</b>		
July	\$ 1,565.00	\$ 905.00	transfer to 501c3	\$ 905.00	\$ 84.14	DF cable ties for net
		\$ 24.72	DF copying cost			
August	\$ 100.00	\$ 3.00	bank fee		\$ 130.00	JN water quality testing
Sept	\$ 60.00	\$ 40.00	transfer to 501c3	\$ 40.00		
October						
November	\$220.00	\$40.00	transfer to 501c3	\$40.00		
December	\$60.00			\$300.00		
17-Jan						
February	\$660.00	\$100.00	MLSA membership			
March	\$240.00					
April	\$180.00					
May	\$ 60.00	\$ 300.00	MLSA mtg expenses	\$ 100.00	\$ 485.17	lake mgmt expenses
June						
<b>subtotals</b>	<b>\$ 3,145.00</b>	<b>\$ 1,412.72</b>		<b>\$ 1,385.00</b>	<b>\$ 699.31</b>	
<b>current balance</b>	<b>\$4,220.89</b>			<b>\$8,809.44</b>		

## 2017 PERCH LAKE MANAGEMENT REPORT

### 1. EXPENSE REPORT

- A) Year to date expenses - \$485.17
- B) Reimbursement for conference - \$300.00
- C) New unpaid expenses - \$50.00 gift cert.-\$60 lunch  
\$147.72 printing costs

### 2. CLMP TESTING

- A) Beginning our 8<sup>th</sup> year of involvement
- B) Established dissolved oxygen baseline
  - 1) 1 test revealed low oxy. Stagnant weather pattern to blame.
- C) Thanks to Mike O for assistance
  - 1) Volunteers to do some testing?

### 3. CRAYFISH DATA

## LAKE MANAGEMENT EXPENDITURES 2017

1) CLMP ENROLLMENT	\$ 187.00
2) 2 \$25 GIFT CERT.	\$ 50.00
3) ANGLE IRON – containment area	\$ 102.70
4) 1/2 “ BOLTS,NUTS,WASHERS – 20	\$ 13.22
5) PATCHING MATERIAL – containment net	\$ 66.40
6) LEAD WEIGHT & LINE – plant survey	\$ 38.85
<b>TOTAL AMOUNT DUE JIM NOVITSKI</b>	<b>\$ 485.17- Paid 6/1/17</b>

- 1) Enrolled in secchi disk, spring & summer phosphorus, chlorophyll, exotic plant watch parameters. Also needed chlorophyll disposables.
- 2) Gift certificates for raffling off at containment installation.
- 3) &4) Material for expanding the bases for 4 stabilization posts on the containment system's south side.
- 5) Patching material for worn areas on containment area netting.
- 6) Weight and line for plant survey marker buoys.

Board of directors voted to reimburse Jim Novitski \$300.00 for expenses occurred at MLSA conference in April. Paid - 6/1/17

### ADDITIONAL EXPENSES

1) 2 \$25 Gift Cert. for plant survey	\$50.00
2) Lunch for plant survey	<u>\$60.00</u>
<b>TOTAL DUE as of 7/1/17</b>	<b>\$110.00</b>

In cooperation with the Cisco Chain Riparians Owners Association and  
the Invasive Species Control Coalition of Watersmeet

## MSU Extension Presents in Watersmeet, MI

July 28, 2017



### Protecting Lake Shorelines: A Program for Lakefront Property Owners and Local Government Officials

Inland lakes are places where family and friends gather to enjoy each other and the recreational opportunities that abound. Memories created during these times inspire a generation to share the experience with the next. Lakefront property owners, other citizens, and all communities benefit socially and economically from healthy lake ecosystems. With over 11,000 inland lakes and more than 1,850 units of government in Michigan, all local governments play a role in protecting our waters.

The program's purpose is to teach lake property owners and local officials the benefits of maintaining shorelines in a natural state and to teach about tools and resources property owners can use to plan and protect natural shorelines and how local governments can plan for and assist these efforts.

#### Workshop Topics

Planning and Zoning for Natural Shorelines  
Introduction to Shorelines and Lake Ecology  
Planning and Designing a Natural Shoreline  
Maintenance and Natural Shoreline Success  
Michigan Shoreline Rules and Regulations  
Michigan Shore Land Stewards Program

Included will be a hands-on aquatic plant demonstration as well as a field-based opportunity to examine local natural shoreline projects.

**Locations:** Lac Vieux Desert Resort Casino, Room 400  
N5384 US Hwy 45  
Watersmeet, MI 49969

**Time:** 9:30 a.m. - 5:00 p.m. CST

**Register Online:** <https://events.anr.msu.edu/upnaturalshorelines>

Registration includes lunch, workshop handouts, and a copy of the MSU  
Natural Shoreline Landscapes on Lakes Guidebook.

**Cost:** \$40 - Individual Registration (on or before July 6); \$60 after July 6  
\$60 - Shared Registration, individual plus spouse/partner registration; \$80 after July 6  
(includes one set of shared materials)

#### Cancellation and Refund Policy:

There is a \$20 administrative fee for cancellations received after July 20.

Registration will close at 11:59 PM on July 20, 2017

The protection, preservation and restoration of shorelines are key components of the overall health of our lakes. Any ISCCOv member that wishes to attend this program will be eligible for reimbursement of tuition expense upon completion of the workshop.

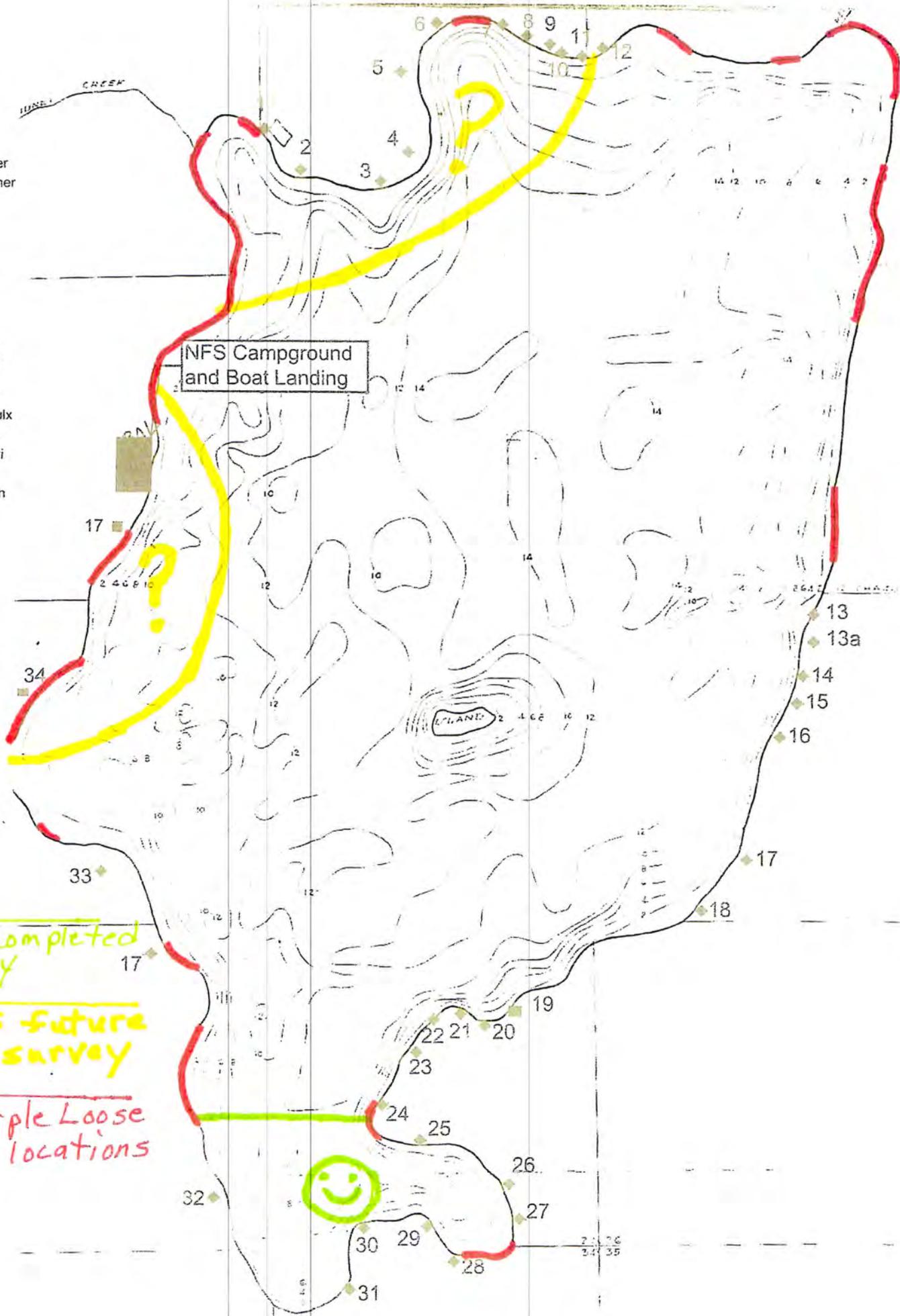
A block of rooms have accommodations for participants who wish to stay overnight. For the advantage of this opportunity call the Lac Vieux Desert Casino Casino at 906-475-2222 and ask for group # 16700-4

**Question:** Contact Brad Neumann, Extension educator, at [neumann3C@anr.msu.edu](mailto:neumann3C@anr.msu.edu) or 906-475-5731

PERCH LAKE CRAYFISH TRAPPING DATA

DATE/14	NORTH SHORE	SOUTH SHORE	EAST SHORE	WEST SHORE	TOTAL
JULY	67	0	15	N.A.	82
AUGUST	66	0	0	0	66
SEPT.	20	0	0	8	28
<b>TOTAL</b>	<b>153</b>	<b>0</b>	<b>15</b>	<b>8</b>	<b>176</b>
2015					
MAY	37	N.A.	180	N.A.	217
JUNE	59	N.A.	133	N.A.	192
JULY	38	55	58	N.A.	151
AUGUST	59	19	4	3	85
SEPT.	19	11	2	2	34
<b>TOTAL</b>	<b>212</b>	<b>85</b>	<b>377</b>	<b>5</b>	<b>679</b>
2016					
MAY	45	44	12	1	102
JUNE	28	142	10	N.A.	180
JULY	133	21	68	2	224
AUGUST	49	7	92	1	149
SEPT.	32	8	3	1	44
<b>TOTAL</b>	<b>287</b>	<b>222</b>	<b>185</b>	<b>5</b>	<b>699</b>

- 1. Lyle & Judith Sensenbrenner
- 2. Gail Sensenbrenner
- 3. Norm & Alice Clark
- 4. Mary Bissey & Neil Strack
- 5. Randy & Sue Schneider
- 6. Tom & Janet VanWagner
- 7. Cliff & Margo Janiak
- 8. Lynn Klump
- 9. Vain & Patty Smith
- 10. William Robillard
- 11. Carol Knoke
- 12. Charles & Bonnie Swatek
- 13. Ed & Sheila Scanlan
- 13a. Ed & Sheila Scanlan
- 14. Mike & Pam O'Brien
- 15. Jim & Jackie Novitski
- 16. Hal & Nancy Petrimouk
- 17. Tom & Debbie Haight
- 18. Ted & Sally Brzezinski
- 19. Doug Hare
- 20. Glen & Jan Gunnufsen
- 21. Dave & Helen Crowe
- 22. Bud & Becky Paul
- 23. Alan & Pat Madsen
- 24. Ron & Connie Tilot
- 25. John Tilot
- 26. Chris & Liz Quinn
- 27. Bill Pence
- 28. Dave & Nancy Foster
- 29. Mike & Carol (Hicks) Brown
- 30. Terry & Sue Read
- 31. Carl & Michelle Reankler
- 32. Glen & Ann Carli
- 33. Edith Foye
- 34. Russell Holler



Green is completed survey

Yellow is future plant survey

Red is Purple Loose Strife locations



## PLEASE JOIN THE IRON COUNTY LAKES AND STREAMS PARTNERSHIP

Dear Valued Partner,

**The Iron County Lakes and Streams Partnership invites you to join us as a new member or renew your existing membership for 2017 as we continue growing our active projects and successes. A sign-up sheet is enclosed.**

Annual membership is free to businesses and other groups and only \$10 for individuals while children under 18 participate for free. We are very careful with our finances and appreciate donations. We are incorporated in Michigan as a 501c3 charitable non-profit organization so your donation is tax deductible as far as allowed by the IRS.

### **This is what we believe in:**

- We are committed to preventing and controlling aquatic invasive species in Iron County lakes and streams
- We will find success through cooperative community outreach, education and participation in numerous types of field projects

The Partnership continues to grow in member numbers and effectiveness because its members enthusiastically support and participate in its community outreach, public education and field projects. In 2016 our members participated in about 40 different projects most of which were in the field on the front lines of aquatic invasive species prevention and control. We already have major events planned for 2017. Just one example: On May 3 we will be hosting a free, day long training session about water quality monitoring, called Michigan's Cooperative Lake Monitoring Program, which serves as an early warning system against invasive species and other issues facing lakes and streams. Participants will be coming from across the western Upper Peninsula. Experts from downstate will teach participants about basic lake science and simple field testing procedures. Consider attending this training just as an educational opportunity even if you are not interested in formally joining the program (we expect 21 Iron County lakes will be participating in 2017 in this program).

We are governed by a board of directors, currently with eleven members, who represent interests in all forms of lake and stream use. We believe in cooperation and collaboration as we seek to conserve the quality of Iron County lakes and streams for the generations to come. Our directors are

Bill Fleming (Lake Ellen)

Mark Klink (Winslow Lake)

Mike Golas (Sunset Lake)

Tom Madden (Stager Lake)

Jen Ricker (Iron-Baraga Conservation District)

Jim Novitsky (Perch Lake)

Mike Bukovitz (Hagerman Lake)

Bob Willing (Maggie Lakes)

Diane Kut (Fortune Lake)

Dean Pelkey (Golden Lake)

Don James (Iron-Baraga Conservation District)

Get direct contact information for our board members by emailing [iclsp@yahoo.com](mailto:iclsp@yahoo.com) or calling 906-265-2371.

We meet monthly to handle business, plan projects and exchange news. Come to one of our meetings to learn more. We assure you that you will find the experience of participating with us educational, enjoyable and constructive. We are all volunteers, not experts, and we need people like you to participate with us. The only qualification is to have an interest in lakes and streams and how they might be protected for generations to come. You can adjust your level of participation to match your time and resources

Thank you very much for your interest and participation!

**IRON COUNTY LAKES AND STREAMS PARTNERSHIP  
2017 ANNUAL MEMBERSHIP ENROLLMENT**

**Mail to: IRON COUNTY LAKES AND STREAMS PARTNERSHIP, P.O. BOX 194, CRYSTAL FALLS MICHIGAN 49920**

Name of Individual, Business or Organization \_\_\_\_\_

Mailing address \_\_\_\_\_

If you own lake or stream property, name of lake or stream \_\_\_\_\_

Email (Optional but helpful...We keep your address confidential) \_\_\_\_\_

Indicate amounts paid:

Individual (\$10)	\$ _____
Child under 18 (Free)	_____
Business/Organization (Free)	_____
Donation	_____
Total	\$ _____

**We are incorporated as a 501c3  
non-profit charitable organization so  
your contributions are tax deductible  
to the extent allowed by the IRS.**

**Thank You!!**

**Please indicate your interests (no obligation; we want to match your time and resources to our activities)**

\_\_\_\_\_ Learning more about aquatic invasive species, the impacts on lakes and streams, how they are prevented or controlled and what projects are going on in the area.

\_\_\_\_\_ Observing on-the-water projects, which is a great way to learn. We can provide boats and other logistical needs for any one of the many projects in the area. No work required, and we can accommodate limitations you might be worried about.

\_\_\_\_\_ Participating in on-the-water projects. From simple to complex, there are many opportunities.

\_\_\_\_\_ Community outreach and education (such as helping with graphic design, distribution of educational materials, helping with booths or demonstrations, reaching out to community groups, photography, writing/publishing)

\_\_\_\_\_ Participating in a small group (Membership, Education, Advocacy, or Technical)

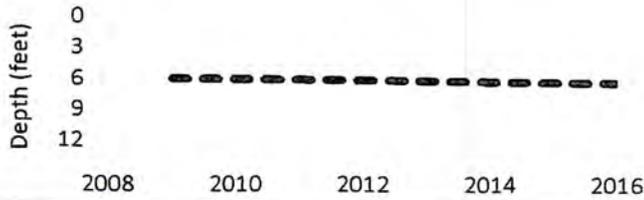
**Comments/Questions:**

# Perch Lake, Iron County 2016 CLMP Results



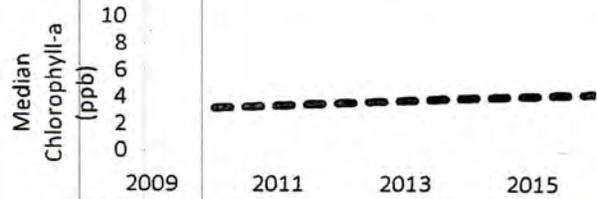
## Secchi Disk Transparency (feet)

Year	# Readings	Min	Max	Average	Std. Dev	Carlson TSI
2016	17	4.0	7.0	5.6	0.8	52
2011-2015	72	3.5	10.0	6.2	1.1	51
2009-2010	26	3.5	11.5	6.4	1.5	51
2016 All CLMP Lakes	3116	1.0	56.0	12.9	2.8	41



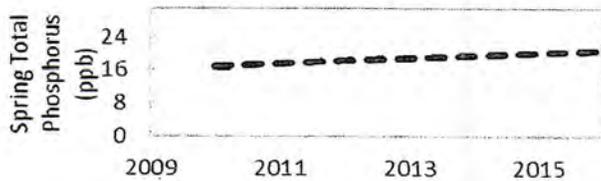
## Chlorophyll-a (parts per billion)

Year	# Samples	Min	Max	Median	Std. Dev	Carlson TSI
2016	5	1.4	6.7	4.9	2.1	46
2011-2015	25	1.4	7.5	3.8	1.7	44
2010-2010	5	1.2	9.0	3.8	3.1	42
2016 All CLMP Lakes	628	<1.0	28.0	1.8	4.3	36



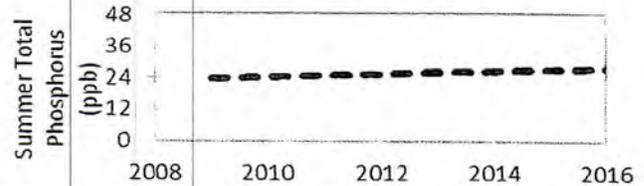
## Spring Phosphorus (parts per billion)

Year	# Samples	Min	Max	Average	Std. Dev
2016	1	25.0	25.0	25.0	NA
2011-2015	5	9.0	26.0	18.0	6.1
2010-2010	1	16.0	16.0	16.0	#####
2016 All CLMP Lakes	168	<= 3	74.0	9.5	7.8



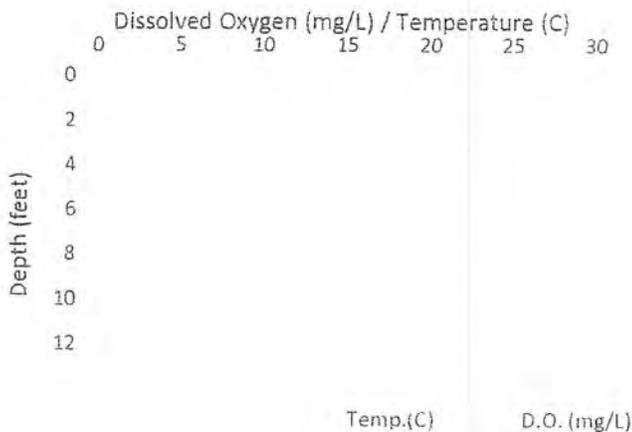
## Summer Phosphorus (parts per billion)

Year	# Samples	Min	Max	Average	Std. Dev	Carlson TSI
2016	1	44.0	44.0	44.0	NA	59
2011-2015	5	16.0	27.0	21.4	4.4	48
2009-2010	2	26.0	29.0	27.5	2.1	52
2016 All CLMP Lakes	173	<= 3	250.0	15.1	21.7	43



## Dissolved Oxygen and Temperature Profile

8/18/2016



## Summary

Average TSI	2016	2011-2015	2009-2010
Perch Lake All CLMP Lakes	52	48	48
	40	40	42

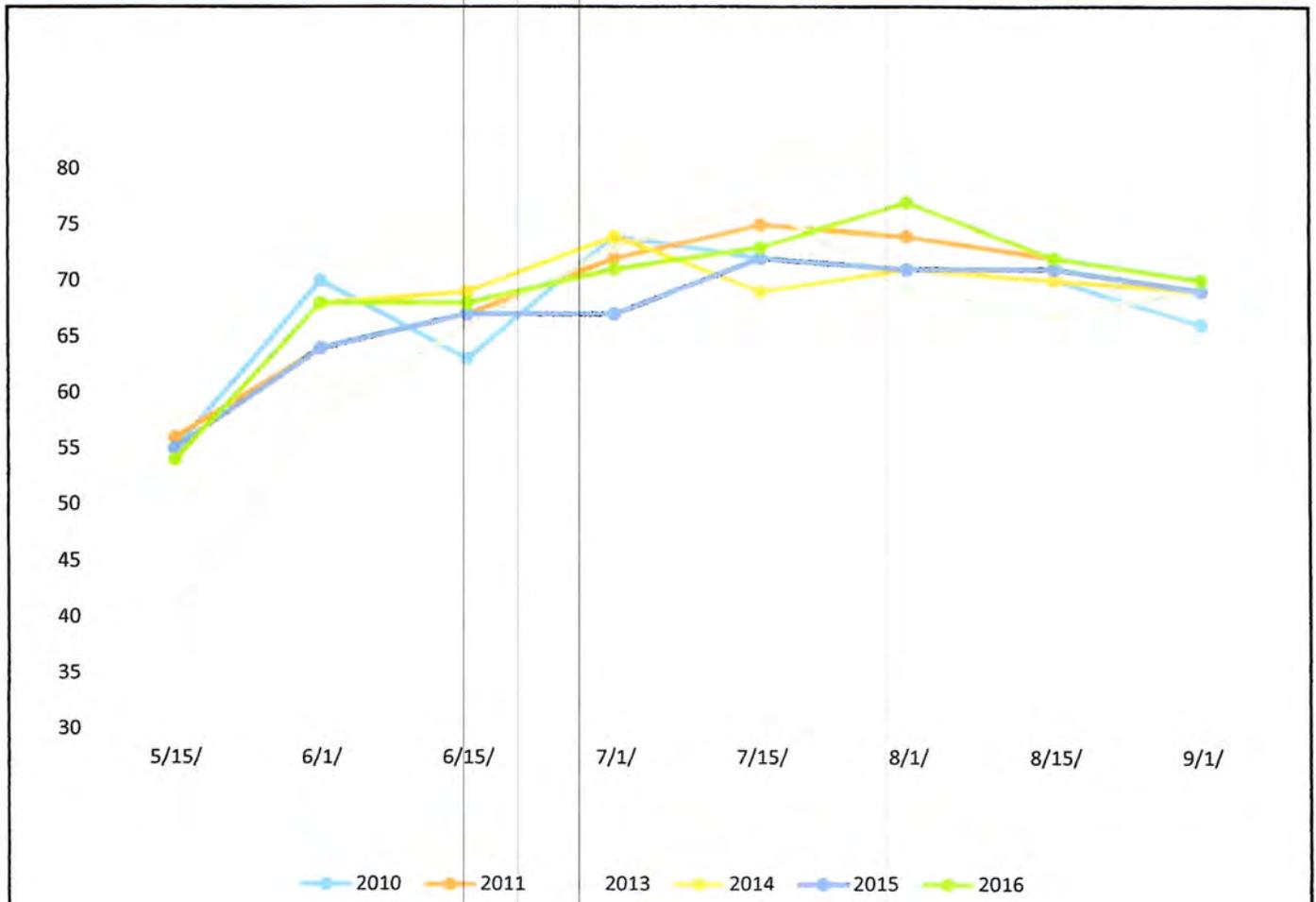
With an average TSI score of 52 based on 2016 Secchi transparency, chlorophyll-a, and summer total phosphorus data, this lake is rated as an eutrophic lake.

Due to its low depth, the lake is able to maintain dissolved oxygen throughout the water column for the entire summer, though there are days when dissolved oxygen gets low on the bottom waters.

Long term monitoring shows slight upward slopes on all of the parameters, indicating a very slow movement toward higher nutrient levels in the lake. 2016 was a higher nutrient year than others in the recent past.

\* = No sample received W= Value is less than the detection limit (<3 ppb) T= Value reported is less than the reporting limit (5 ppb). Result is estimated.  
<1.0 = Chlorophyll-a: Sample value is less than limit of quantification (<1 ppb).

### Temperature Data Graph



### Temperature Data Table

	5/15/	6/1/	6/15/	7/1/	7/15/	8/1/	8/15/	9/1/
2010	55	70	63	74	72	71	70	66
2011	56	64	67	72	75	74	72	70
2013	41	58	66	73	77	69	67	69
2014	54	68	69	74	69	71	70	69
2015	55	64	67	67	72	71	71	69
2016	54	68	68	71	73	77	72	70

Red denotes the year in which the temperature survey was done.  
 Green is the approximate dates that the temperature survey was done.  
 Blue is the actual temperature results.

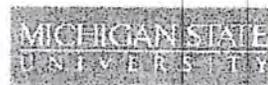


**2016 Data Report**  
**for**  
**Perch Lake, Iron County**

Site ID: 360046

46.361392°N, 88.658338°W

The CLMP is brought to you by:



**About this report:**

This report is a summary of the data that have been collected through the Cooperative Lakes Monitoring Program. The contents have been customized for your lake. The first page is a summary of the Trophic Status Indicators of your lake (Secchi Disk Transparency, Chlorophyll-a, Spring Total Phosphorus, and Summer Total Phosphorus). Where data are available, they have been summarized for the most recent field season, five years prior to the most recent field season, and since the first year your lake has been enrolled in the program.

If you did not take 8 or more Secchi disk measurements or 4 or more chlorophyll measurements, there will not be summary data calculated for these parameters. These numbers of measurements are required to ensure that the results are indicative of overall summer conditions.

If you enrolled in Dissolved Oxygen/Temperature, the summary page will have a graph of one of the profiles taken during the late summer (typically August or September). If your lake stratifies, we will use a graph showing the earliest time of stratification, because identifying the timing of this condition and the depth at which it occurs is typically the most important use of dissolved oxygen measurements.

The back of the summary page will be the results of the Exotic Plant Watch or Full Plant Mapping, if you participated in that parameter. If you enrolled in the Score the Shore Parameter, a summary will be found after the plant page.

The rest of the report will be larger graphs, including all Dissolved Oxygen/Temperature Profiles that you recorded. For Secchi Disk, Chlorophyll, and Phosphorus parameters, you need to have two years of data for a graph to make logical sense. Therefore if this is the first year you have enrolled in the CLMP, you will not receive a graph for these parameters.

Remember that some lakes see a lot of fluctuation in these parameters from year to year. Until you have eight years worth of data, consider all trends to be preliminary.

To learn more about the CLMP monitoring parameters or get definitions to unknown terms, check out the CLMP Manual, found at: <https://micorps.net/wp-content/uploads/CLMP-Manual.pdf>

**Thank you!**

The CLMP leadership team would like to thank you for all of your efforts over the past year. The CLMP would not exist without dedicated and hardworking volunteers!

The CLMP Leadership Team is made of: Marcy Knoll Wilmes, Jean Roth, Jo Latimore, Paul Steen, Scott Brown, Laura Kaminski, and Michele Leduc-Lapierre

**Questions?**

If you have questions on this report or believe that the tabulated data for your lake in this report are in error please contact:

**Paul Steen (psteen@hrwc.org), MiCorps Program Manager**

## 2017 QUINN CAMP HORSESHOE TOURNAMENT



To Our Perch Lake Neighbors,

The Quinn Camp will be hosting the 5<sup>th</sup> Annual Informal Horseshoe Tournament on the Sunday of Labor Day weekend, Sept. 3<sup>rd</sup>. The Quinns would like participants to arrive by 1:00 p.m. at which time we will establish the teams in a random drawing. No previous horseshoeing experience is necessary. We adjust throwing distances to suit individual abilities. Pairing will be made after everyone arrives. Scoring will also be adjusted depending on the number of participants. Last year's champions will be on hand to instruct in the finer points of horseshoe competition.

We will set up a screened tent for snack food and ask that each couple bring a snack dish to share. Also, as was done last year, we will cook brats, burgers and hot dogs on the grill as the tournament winds down.

We will adjust scoring depending on number of players so that competition moves along smartly. There will be a championship award! We hope to have a second horseshoe court available to reduce waiting times. Please let us know by Aug.25<sup>th</sup> how many people will be attending. Hope you can make it. The last 4 years have been fun and the more players the merrier!!

Chris \$ Liz      Phone 847-678-4374      email: [quinnclan@ameritech.net](mailto:quinnclan@ameritech.net)

Camp Location – turn off FR 2130 at fire sign 777 and proceed in 0.8 miles

# PLOA COLOR RIDE



? DATES: SEPT. 30, OCT. 1, 6, 8 ?

ROUTE: Iron River, Crystal Falls, Amasa

TIME: 8:30 am central ?

Bring appropriate gear, warm clothes, beverages, and snacks. Stop for late lunch. Contact Jim Novitski if interested in participating.