

Explanation of Treatment on Round Lake, Sawyer County, WI, July, 2013.

The treatment on Round Lake occurred during the week of July 15-July 20, 2013. Round Lake is a large (3000+ acre) deep oligotrophic lake. EWM has been established in soft substrate in some shallower bays and shorelines.

In 2012 the ice went out in late March(very early), in 2013 the ice went out May 12-14(very late). **The water levels were at their highest in 12 years or more.** The water temps slowly rose. The permit was received June 20, 2013. RLPOA volunteers assembled and delivered the many treatment packages that were required during week of 6/23-6/29. I did the pre-treatment survey during that week as well. Next came the 4th of July period which generally runs 1-2 weeks with high seasonal activities. It was agreed to skip this timeframe for treatment to prevent interference, negative interactions and insure safety. Milfoil growth was still limited.

The growth rate of the EWM varied depending where on the lake it occurred but it all was behind schedule. Everything seemed about a month behind. **Water temps were low for July** starting in the low 70's and reaching mid 70's by July 20, 2013. It was a large cool volume of water. Additionally, the **visibility was lower than normal** (probably due to the high water). This may have reduced some light intensity/penetration. 10-15'+ is normal. We experienced 8-10' visibility.

Treatment was considered for the week of July 8, 2013 but weather (wind) and traffic were issues. The week of July 15 was chosen. The week was sunny, hot and humid with temperatures reaching high 80's into 90's. Areas of treatment were selected in accordance with predicted wind directions.

Several areas were rescheduled because of change in weather (wind) conditions. Even some early morning starts experienced wind issues. The windward side of 3000 acre lake has significant wave action even with a 4mph wind. The project was accomplished by 7/20/2013 using the wind conditions to our benefit according to the day. I realize that this is not always practical but I had the open schedule to modify our treatment accordingly.

The results:

So far, it appears that there has been large reduction of EWM in the large masses in the northern bays. Smaller spot treatments around the Lake also show good results but some still need to be evaluated when visibility is good.

A full survey of results will occur at the beginning of September. This will be done in conjunction with the Sawyer County AIS Coordinator.

Typically, this type of treatment program would be conducted in June. The main idea is to treat when the plants are actively growing which is **generally later** in this cooler lake. This season was definitely an anomaly. However, I believe our treatments and timing mimicked what would be a typical June aquatic climate.

Having lived on the lake for 12 years I have seen past treatments that have worked but many not so much. I haven't seen any follow up either. What I have concluded is that GOOD mapping is essential. Most of the past treatments never even hit several significant areas of EWM. Treating too early on this lake may miss many areas not growing actively. **Two months after ice out** seems about typical but I would be flexible a couple of weeks either way according to how the EWM is growing.

Lastly, I would not rule out late season treatments especially follow ups. For this I mean late August or September depending on the conditions. I believe that, if possible, customizing the programs specific to the unique lake characteristics and specific seasonal conditions of the year will lead to greater results.