



Dedicated to the Preservation, Safety, and Enjoyment of Archibald Lake

Spring 2011

The editor for this edition: Steve Fleming – stevefleming77@earthlink.net or phone 262.993.4228.

Please feel free to contact any Board Member (listed on the last page) for articles you would like to see written or ideas you have for improvement.

Archibald Lake website: www.archibaldlake.com

Table of Contents

<u>Article</u>	<u>Page #</u>
<i>Calendar of Meetings & Events.....</i>	<i>2</i>
<i>Welcome to the Spring Issue of the Archi Times</i>	<i>2</i>
<i>Sympathy.....</i>	<i>3</i>
<i>Fund Raising Plans</i>	<i>3</i>
<i>Picnic and Golf Outing.....</i>	<i>3</i>
<i>Money Talks.....</i>	<i>4</i>
<i>Archibald Lake Fish Survey</i>	<i>5</i>
<i>Aquatic Plant Management Plan</i>	<i>6</i>
<i>Clean Boats / Clean Waters</i>	<i>6</i>
<i>Adopt a Shoreline</i>	<i>8</i>
<i>Eurasian Water Milfoil.....</i>	<i>8</i>
<i>Flowering Rush</i>	<i>10</i>
<i>Apparel Sale.....</i>	<i>14</i>
<i>Volunteer Corner.....</i>	<i>14</i>
<i>Community Information.....</i>	<i>15</i>
<i>Web Site</i>	<i>15</i>
<i>ALA Board Members.....</i>	<i>15</i>

Calendar of Meetings & Events

Annual Meeting:

Townsend Town Hall

Date: June 25th 2011

Time: Social 9:00AM

Meeting Start 9:30AM

Meeting ends at 11:00

Annual Picnic

Date: August 6th, 2011

Host: Ken & Paula Schwebke

Brat Fry Dates (10:00 – 2:00)

Friday June 3rd, 2011

Saturday August 6th, 2011

Saturday August 27th, 2011

Golf Outing

Date: September 10th, 2011

Place: Nicolet Country Club,
Laona

Welcome to the Spring Issue of the Archi Times by Dick Rankin

HAPPY SPRING!!!!

Thankfully, the long winter seems to be a thing of the distant past as sunshine and warmth graced the opening of fishing season. The lake level, according to local ‘experts’, rose approximately 10” over the winter months. Good News indeed! The loon families are back on both lobes of Archibald and the eagles patrol the sky. Seems as though the lake is ready for ALL of us to enjoy in the coming months.

Within this Spring Issue of the Archi Times you will find MUCH interesting and important information. Please do take time to read everything as your knowledge and subsequent involvement in the activities of your lake is most important. The Board always welcomes your feedback.

Bullet points of Important Info:

- Annual Meeting, June 25th at the Townsend Town Hall, will be very focused as the Board is cognizant of your time, your priorities – and we want to have you attend!!! Social gathering starts at 9:00 and the meeting will commence promptly at 9:30 with an adjournment at 11:00.
- Prominent agenda items will be the updates on the EWM plan/treatment program, flowering rush plans, the presentation of an updated constitution for a vote, and board elections. There will be handouts related to committee activities, budget information for the past and coming year, displays for volunteer involvement opportunities, and much more. Plus you have the time to mingle with lake neighbors.
- The proposed constitution was passed by the Board at the May 7th meeting. This updated constitution was fashioned after the hybrid draft of the Wisconsin Association of Lakes Model Bylaws. Under the leadership of Gary Miller and Kathy Wiggins, the Board integrated the key components and unique parts of the present lake constitution with the Lakes Model. You will be provided a copy of the revised constitution with the Annual Meeting agenda.
- An association membership sign for those north of the landing road is to be constructed by Tim McGuire and Jim Weyers in late May/early June. This sign will be located at the Bullfrog Road signage area and incorporate the 60+ members whose cottages are on the northern lake section.
- Cleaning your cabin – please think about donating items to the Wabeno Thrift Store. Many of the folks in our northern area do indeed find good use of items shared.
- Raffle items are still desired – presently we have a 2010 autographed Green Bay Packer football, several wildlife prints, 2 cribbage sets, several theme baskets, and some tool/ fishing items. Would your family please consider donating a FAMILY BASKET – could be items you feel folks on the lake would enjoy. We can put the basket together for you, just provide the

items. Your contributions to the raffle are most important. Thanks.

- VOLUNTEERING – as previously mentioned there will be a booth displaying the many opportunities to help your association. All options are for SHORT TIMES, i.e. like 90 minutes! Do think about asking the adult kids in your family to participate with you. It is important for the next generation of lake users to begin getting involved.
- We are always happy to receive member inputs and suggestions. As an example, we have received some very good ideas regarding ways to “barrier off” flowering rush for treatment as well as possible ways to do the treatment. We have one member building a “cube” to help lower the water level around the plants. Keep your thoughts and ideas coming!

Certainly do expect to see you at the Annual Meeting and the many other lake activities this summer

Dick Rankin, Association President

Sympathy by Kathy Wiggins

The Archibald Lake Association would like to express its sympathy to the families and friends of Peggy Blount, 16566 Archibald Parkway. Peggy and her husband, Tom, were instrumental in maintaining the membership signs on the lake for many years. Please keep them in your thoughts and prayers.

The Association would like to be informed of the passing of any members. Please notify Kathy Wiggins so that we can properly acknowledge it.

Fund Raising Plans by Dick Rankin and Tim Counihan

Archibald Lake Association volunteers will be staffing the Burger & Brat stand at the Lakewood Super Value. We are looking for a couple of volunteers to cook and serve for the following dates:

Friday June 3, 2011

Saturday August 6, 2011

Saturday August 27, 2011

Hours are from 10:00am - 2:00pm.

If you can help out contact Tim Counihan at tcounihan@att.net or 920-337-0549.

Remember we need customers too so please let your friends and family know if they are looking for a reasonable & delicious lunch to stop in. And best of all the proceeds go to Archibald Lake.

Picnic and Golf Outing by Betsy Nock (Kathy Wiggins, Larry Market, and Mark Hasselink)

The Annual Archibald Picnic will be held one week earlier this year on August 6th. Our second Raffle winners will be chosen during the picnic time. Please circle the date on your calendars for this fun family event. Ken and Paula Schwebke have again graciously volunteered their cottage space for our picnic.

The Golf Outing is scheduled for September 10th, 2011. Once again, it will be held at the Nicolet Golf Club in Laona where we have been for the past two years. As usual, the Golf Outing will include golfing in the afternoon, a dinner at night and a Golf Raffle after dinner. Money raised by the Golf Outing has been donated to the Archibald Lake Association and we are very appreciative of their efforts.

If you have items that you are able to contribute to either the Second Annual Raffle of the Archibald Lake Association or to the Golf Outing, please contact Dick Rankin at richard.rankin@snc.edu (920 494-4887). Flyers with more information about the Picnic and the Golf Outing will be mailed out in June.

Volunteers are needed to assist with the Picnic and the Golf Outing. If you are able to help us, please let Betsy Nock (eanock@granitewave.com or 715.276.6633) know.

Money Talks by Gary Miller

The Archibald Lake Association treasury continues to be very strong. Thanks to the generosity of our members we are in very good financial condition going into the summer of 2011 and into a time when we expect continued costs associated with protection of our lake from invasive species.

Association membership remains strong and growing. In 2010 we had 149 members who contributed nearly \$4,500 toward anticipated costs of the Association through membership dues. We have raised almost \$2,800 through a variety of fund raising efforts including brat fries, raffles at the membership picnic and golf outing, clothing sale and from users of the lake through the boat landing box. We also received almost \$2,200 from the WDNR as a grant for our lake management programs and another \$175 from website advertisers. The total funds received for Association projects for 2010/11 fiscal year was \$9,702.

On the expense side, we continue to manage our administrative costs through the use of the internet and email. The use of email saved us about \$400 last year and is much less labor intensive than sending through US Postal. Total administrative costs (mailings, insurance, meetings etc.) were \$524 which is over \$600 less than budgeted. Most of our expenses have been related to projects to control invasive species including treatments for Eurasian Water Milfoil (EWM), Clean Boats/Clean Waters efforts and development of an Aquatic Plant Management Plan. The cost of these efforts was \$5,883. We had budgeted \$9,510 for various projects. Some of those projects have not started yet and some will continue to use our funds. These are the most important of our expenses and are the cost of fighting the invasive species outbreaks we have in the lake. Work will continue on fighting EWM and starting our work to control/eliminate Flowering Rush. We had minimal expenses for the Association website which are largely offset by advertiser fees. We also had a variety of expenses to maintain our membership in state lakes associations and attend the Wisconsin Lakes Convention, both in an effort to increase our awareness and knowledge in lakes issues. We spent a little over \$500 on the annual Association picnic and golf outing. We are not all work and we need to celebrate at times. The raffle at the picnic brought in \$834 (\$309 more than the picnic cost) and the raffles at the golf outing netted \$628 as the golf outing costs the Association zero dollars. Total expenses for the year were \$8,081. We realized \$1,621 more dollars than we spent.

Our current cash position, at the end of the current fiscal year, was \$14,354. Of this amount, \$900 is still available in the Marty/Wiggins Shoreline Restoration Fund. We will enter the 2011/2012 year in great financial condition and with cash and grant money still available in our fight against invasive species. We are a healthy and vibrant lake association, in many respects. As a member you can be proud to be associated with an organization such as this that is greatly respected among our peer associations and the WDNR.

Thank you again for your support of the Archibald Lake Association and the variety of activities that maintain and protect Archibald Lake.

Archibald Lake Fish Survey by Chip Long (WDNR Inland Fish Biologist)

Between April 28 and May 8, 10 fyke nets were deployed in Archibald and checked daily by the Wisconsin DNR. We also electrofished Tuesday night, May 3, in an effort to recapture walleye marked (fin clipped) during the fyke net survey. Approximately 300 walleye were collected and fin clipped during the fyke net survey. On May 3, 75 walleye were collected (40 unmarked and 35 marked); essentially meaning that we had clipped a significant portion of the population. Using both fyke netting and electrofishing to mark and recapture fish will allow us to use different methods to estimate the population size and/or walleye density (fish / acre). One "interesting" side note is that we caught a walleye that had been tagged in 1999. At that time the fish was 16.8 inches long and estimated to be 5 years old. The same fish was recaptured in 2007 (now 13) and was 20.7 inches long. In 2011, now 16 years old, that same walleye measured 21.7 inches long.

We also captured approximately 20 muskellunge and inserted PIT (passive integrated transponder) tags. These tags are inserted just under the skin near the dorsal fin and are about the size of a grain of rice (these cannot be seen if caught). By PIT tagging muskellunge over time, we will be better able to estimate the population size and growth as we continue to tag and monitor these fish in the coming years.

No spotted muskellunge were collected. Once they become sexually mature (6 or 7 years old) they will be more vulnerable to capture during the spring fyke net sampling as they cruise the shallows. However, as the water continues to warm up its possible we may see them during the gamefish / panfish portion of our survey at the end of May / beginning of June.

Good numbers of perch averaging 7+ inches were observed. Very few perch over 9.5 inches were collected.

Black crappie were fairly well represented in the fyke net sample. Quite a few crappie over 10 inches, and up to 12.8 inches, were collected.

Rock bass were abundant. Several fish over 10 inches were collected but most were between 7 and 9 inches.

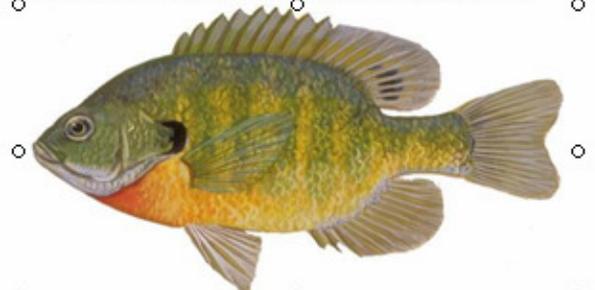
Most of the bluegill we caught were between 5 and 7 inches; very few fish over 8 inches were collected. We tagged roughly 250 with a red floy tags to help determine not only angler harvest but the number of harvestable bluegill actually out there. We will be tagging a few more in May / June. We have posted a sign at the boat ramp kiosk (shown to the right).

Bluegill had a great deal of "black spot". This is a common parasite caused by adult flukes living in the intestines of kingfishers. Eggs from the kingfisher's intestines are released to the water through its feces. Once in the water, the eggs hatch, releasing a larvae that infects certain species of snails. Larvae develop in the snail and then emerge and "swim" until they encounter a fish. The larvae then burrow into the skin or muscle of the fish and secrete a protective wall around themselves. The fish also secretes a

Attention Anglers

Please be on the lookout for tagged bluegill in Archibald Lake

In April 2011, approximately 200 bluegill were tagged in Archibald Lake. Tagged fish will either have one or two red tags at the base of the dorsal fin. The information provided by you, the angler, helps the DNR to determine the number of bluegill in the lake and how many are harvested annually.



If you catch a tagged bluegill:

- Record the date, fish length, tag number and if you kept or released;
- Mail the tag to the address printed on the tag;
- Mail the tag to the following address; **Cory Wiensudt
Wisconsin DNR
101 N. Ogden R.d. Ste. A
Peshtigo, WI 54157**
- Call "1-888-5007" to report the tag;
- Report the tag to the DNR creel clerk at Archibald Lake.

Your cooperation and participation is greatly appreciated!



protective layer around the parasite and we see this as the "black spot". When the kingfisher eats an infected fish, the larvae mature to the adult stage and the cycle repeats. Since the parasite spreads via free-flying kingfishers, susceptible fish and resident snails, it is nearly impossible to get rid of. The parasite poses no threat to humans because we are not in its "life cycle". The black spot is unsightly; however, fish with "black spot" are still edible. A picture can be found at the ALA website.

Largemouth bass typically avoid fyke nets. Sampling later in May / June (electrofishing) will reveal more information about the bass population.

A fair number of northern pike were collected but only a handful were over 20 inches. The largest collected was about 27.5 inches.

The DNR is also conducting a creel survey during 2011. Creel surveys are used to estimate fishing effort and harvest on a body of water. A creel clerk will be scheduled to work various days (weekday vs. weekend day) and times (morning vs. evening). The clerk will actively seek out anglers to ask a variety of questions about their fishing trip. Questions the clerk (Neil) may ask might include; residence (county), what species of fish anglers were targeting, what was caught, what was kept, how they would rate the quality of fishing, etc. The clerk will also be measuring harvested fish and looking for tagged bluegill. Information gathered during the creel survey will help guide future management of the fishery.

The fisheries survey report will not be completed until next spring. All of the data must be entered, aging structures prepared, ages assigned to each fish, analysis performed and the report written. There is also an approval process that goes through Madison before the report can be released to the public.

Aquatic Plant Management Plan by Steve Fleming

Last year we introduced the Aquatic Plant Management (APM) Plan at the annual meeting in June. As a lake association, we have moved into the implementation phase of the APM Plan. In future newsletters we will remove this section and only include the major activities in the plan which are "Clean Boats/Clean Waters", Adopt a Shoreline, Eurasian Water Milfoil, and Flowering Rush. If at any time you would like the most current version of the APM Plan you can find it on our website at www.archibaldlake.com or contact me and ask for a hard copy.



Clean Boats / Clean Waters by Betsy Nock

We will begin our 6th year of monitoring at the Boat Landing this Memorial Day. Last year was our most successful year with a total of 244 hours spent at the Boat Landing. During the time spent at the landing, monitors check boats and trailers as they are entering and/or leaving Archibald Lake. It is our hope that there will be no boats or trailers bringing Aquatic Invasive Species into the lake.

During the last summer season, we became aware of a problem that each family can help us with. You received a letter this May concerning the need to pay special attention to your boat and trailer if you have it serviced during the summer, trailered to the lake by someone other than yourself, or if you rent a trailer from a local rental place. We are re-printing that letter below, because it is SO IMPORTANT that you follow the listed recommendations. Please take a moment to read the letter again.

Warning: YOU could be bringing invasive species into Archibald Lake!

Many times, we lake residents feel that the threat of EWM or other invasive species comes from outsiders who are coming in to enjoy our lake for the day. However, during this past summer, we became aware that there have been cases where invasives could have been introduced on our own boats

and trailers. The rental, storage and service companies in our area are not necessarily as diligent as we are with respect to inspecting boats and trailers for plants and animals. If you store a boat and have it launched by someone else, if you rent a trailer or if you have your boat serviced during the summer, you need to be extra cautious about the condition of your boat and/or trailer when it returns.

We need your help to stop this avenue for invasives into Archibald Lake!

1. **If you rent a trailer to launch or remove your boat**, please make sure you inspect the trailer before leaving the lot where you rent it. If you find anything attached or clinging to the trailer, please report it to the owners and remove it before pulling out on the highway. It is the responsibility of the person pulling the trailer to make sure there are no aquatic plants or animals attached to the trailer or boat. "Transporting on public highways a vehicle, boat, boat trailer, or equipment or gear if an aquatic plant or aquatic animal is attached is against Wisconsin law and carries a fine of \$232.00."
2. **If you pay to have your boat launched**, please make sure that you are at the landing to inspect the boat trailer when it is launched. The boat may have been tested or the trailer may have been used last in a lake that has invasive plants or animals. You cannot depend on the launching company to do this inspection. If you cannot be at the boat landing when your boat is launched please ask the rental company in advance what steps they take to insure that invasive plants or animals have been removed before launching the boat.
3. **If you have your boat serviced during the year**, again, please make sure you are at the landing to inspect the boat and trailer when it is launched. Remember, you do not know where your boat and trailer have been before entering Archibald Lake. It may have been tested in a lake that is infested with EWM.

If by chance you would rent a trailer with weeds on it or if you would see your boat, or anyone else's for that matter being launched with weeds, please report it to the owner and if at all possible DO NOT ALLOW the boat to be put in the lake. In any case, record the name of the company doing the work and call Joe Paul (WDNR Game Warden) immediately. His cell phone number is (715) 850-1818. If he is not available or you are not comfortable stopping the launch, record the license plate number and take a picture if you have a camera. You can write down any information in the Clean Boats/Clean Waters (CB/CW) shed at the landing.

It is impossible for our many CB/CW volunteers to be at the landing 100% of the time. Your help with these situations would really help our efforts toward keeping Archibald Lake safe from invasives.

As we begin our season of boat landing monitoring we will all enjoy the convenience that our new shed has given volunteers. Jim Weyers and Tim McGuire completed the reflooring and residing of the shed this fall. Wendell and Patti Schreurs continue to support our efforts by having the shed be partially on their land. New supplies will be added to the shed in early May and we will be ready to begin our efforts on Memorial Day.

We have 22 of 150 families represented in our Clean Boats/Clean Water efforts. We hope that other families will join us in this effort. If you are a new volunteer we ask that you join us for a 90 minute orientation and then sign up for at least 2 more 90 minute sessions during the summer season. I will present more information about being a Clean Boats/Clean Waters volunteer at the Annual Meeting. Teams of volunteers come in many configurations: husband and wife, 2 friends, grandfather and grandchildren, parents and children. Please talk in your family and see how you can help us. We want to be able to have volunteer monitors at the Boat Landing at least 150 hours from Memorial Day to Labor Day.

You can volunteer now by emailing me at eanock@granitewave.com or by telephone at 715.276.6633.

Adopt a Shoreline by Matt Marty

Adopt A Shoreline has been around Archibald Lake for many years but this last fall we gave it a new twist. Instead of looking for trash we are looking for aquatic invasive species which are plants and animals not native to the lake. In order to do this efficiently we have formed an action committee of fifteen volunteers who will look for these invasives on an assigned section of the lake shoreline. They will do this about three times a summer starting in early spring and ending in the fall. These volunteers are as follows: Stan and Suzie Hall, Joanne Boyer, Scott Birkholtz, Steve and Karen Fleming, Cathy Lindeman, Bob and Natalie Gehringer, Scott Allard, Tim and Lynn McGuire, Richard and Elissa Dvorak, Betsy Nock, Matt Marty and Kathy Wiggins.

So far the committee has accumulated 33½ person hours and was immediately successful having found several patches of Eurasian water milfoil which hadn't been known until they were found by members of this group. Some of the patches were small enough to be hand pulled but others were included in the fall herbicide treatment.

Getting out early in this spring will be important for this group. At least one aquatic invasive specie, curly leaf pond weed, begins growing before most other aquatic plants and is gone by early summer. So looking for plants when they are growing is very important.

If you are interested in helping out please contact Matt Marty at marwigs@chorus.com or 608.249.5898. As always the best way to fight aquatic invasive species is to keep them out of the lake entirely. That can only be done by inspecting boats at the landing before they enter the lake. Please consider helping out with that effort as well.

Eurasian Water Milfoil by Steve Fleming

Our Eurasian Water Milfoil (EWM) efforts continue as planned for 2011. So far we have spent \$7,098 of the \$20,000 grant that we received. Our spending rate is slightly less than we anticipated primarily due to the fantastic support received from our many volunteers. Last summer we found several more infestations through our Adopt a Shoreline efforts. We treated those infestations in the fall of 2010. Our plan for 2011 is as follows:

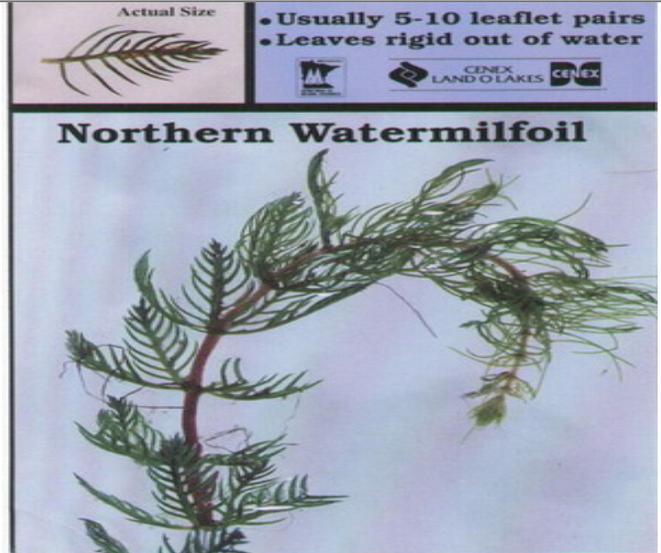
- Complete another shoreline inspection in late May or early June depending on when the plants start to grow.
- Do a chemical treatment of the areas that cannot be hand pulled.
- We are going to be a bit more aggressive hand pulling this year than in the past assuming that we find additional individual and small clusters of plant.
- We will continue to monitor for new infestations through our Adopt a Shoreline program this summer.
- This fall do another chemical treatment.

The pictures of EWM are shown here again just as a constant reminder for people to be on the lookout for this plant and let us know if you think you may have plants growing that have not been identified.



Eurasian Water milfoil (Invasive)

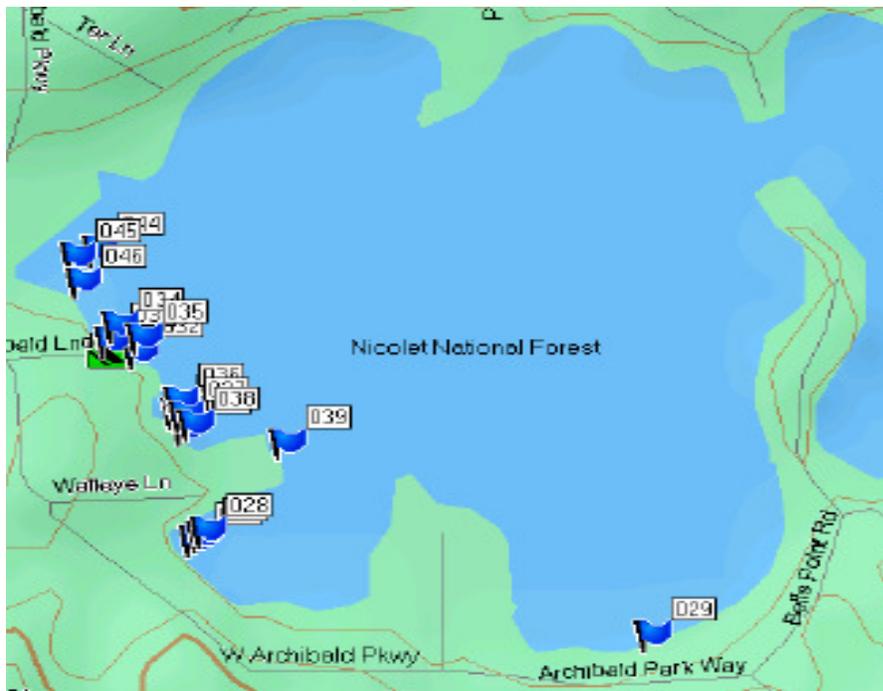
- Usually 12-21 leaflet pairs
- Leaves limp when out of water



Northern Water milfoil (Native, not invasive)

- Usually 5-10 leaflet pairs
- Leaves rigid out of water

Here is a map of the current known EWM infestations (the flags and numbers indicate the areas where EWM has been identified and treated)



We are also repeating the tips from the last Archi Times

We can all help to stop the spread of EWM by doing a few simple things.

- ✓ Check all boats and motors for aquatic plants whenever we launch them. Remove everything before entering the lake.
- ✓ If you anchor your boat or fish near the EWM infestations, remove vegetation from your anchor or fishing lures and dispose of it in the trash in your boat. Do not throw it back in the water. EWM

spreads from plant fragments.

- ✓ Keep a look out for potential infestations of EWM and let an APM team member know the suspected location. If you see loose fragments of suspicious plants floating on the surface, remove the fragments from the water and dispose of them in the trash.
- ✓ Volunteer for the Clean Boats/Clean Water or the Adopt A Shoreline Program. We need as much coverage as possible to prevent the spread of EWM and the potential introduction of other aquatic invaders. If you are interested in working at the Boat Landing please email or call Betsy Nock at eanock@granitewave.com or 715.276.6633. If you are interested in being a Shoreline Monitor please contact Matt Marty at marwigs@chorus.com or 608.249.5898.

Flowering Rush by Cay Brusky

When Paul and I bought our cottage in 1971 our beach had a hard sand bottom with no vegetation except for a small area of lily pads and bulrush. The bulrush was a tall grass-like plant with arching cylindrical, often hollow, stems. These plants gave small fish a place to hide and mature. I'm describing what was common around Archibald because it is under attack. Bulrush is being replaced by an exotic species not native to the northern United States called the flowering rush, *Butomus Umbellatus*. This plant is nothing like our soft stemmed, low-density native.

Its emergent leaves are stiff, narrow, and sedge-like (3-edged or triangular in cross-section.) Flowering rush can grow so densely packed that even small minnows cannot swim through it. Nothing consumes it and it is slowly taking over our shoreline and fish spawning areas. It spreads via a network of rooted rhizomes and from its pink flower's seeds. It's biology changes if the plant is emergent (grows above the water) or submergent (never breaking the water's surface). Emergent plants develop a waxy coating when they break the water's surface. The waxy surface makes it hard for chemicals to penetrate the plant and reach the rhizomes. So any treatment considered must take into consideration many factors.

Eurasian Water Milfoil (EWM), which was found in our lake in 2009 is another invasive plant. We have been managing EWM with money obtained from a WDNR grant. The grant money is being used for chemical application of herbicides to known clusters of Eurasian Water Milfoil.

Unlike EWM, which spreads rapidly, flowering rush is known as a sleeper species. It takes years for the plant to gain a foothold in a body of water but then disperses and thickens at an alarming rate. This is the stage we are entering with flowering rush. Property owners have been pulling and cutting flowering rush for years. Although tedious and arduous labor, if done properly, hand removal is an effective way to temporarily remove the plant. Because not all property owners have the ability or desire to manually remove flowering rush and because a large portion of our shoreline has no property owners to pull or dig, the APM team sought the input of our membership. At last year's annual meeting the membership voted unanimously to seek a research grant from the WDNR for chemical application to test plots of flowering rush.

The Archibald Lake Association received a four-year grant totaling \$42,790 for research and control:

- A. Research to determine which herbicides best kill or retard the growth of flowering rush in Archibald Lake and
- B. When chemical application is deemed effective to use the remainder of the funds to do treatment on other portions of the lake to control and/or kill flowering rush.

The grant is divided into two parts: three quarters of the grant (\$32,092) is money given by the WDNR and one-quarter of the grant (\$10,698) is available from the WDNR as our Association members earn in-kind labor credit to support the project. This ¾:¼ monetary split is the same arrangement as our

EWM grant. We will conduct our research to discover which herbicides, if any, are effective on the flowering rush in Archibald lake and in doing so further the knowledge about flowering rush for all Wisconsin lake communities. Because we are one of the few lakes in the state infested with flowering rush, the WDNR wishes to learn all it can about the chemical control and possible eradication of this pest while it is still rather rare in the state.

Significant work has been done over the past months to understand the current knowledge base for flowering rush treatment and control. Several members of your Aquatic Plant Management team; Steve Fleming, Kevin Springob and Cay Brusky; have spent many hours talking to experts in the field:

- Peter Rice, Research Associate - University of Montana – Doing flowering rush chemical research
- Dr. John Madson – University of Mississippi – Doing flowering rush plant research
- John Skogerboe – Army Corps of Engineers – Doing flowering rush phenology research
- Pelican Lake Water District in Minnesota – Large flowering rush infestation and treatment for 10 years. Tera Guether, the project manager, has amassed copious amounts of knowledge on their website www.prwd.org. Monica Zachay is a technician for the Minnesota lake project and was very helpful warning us of their mistakes: like NEVER use a mechanical cutter to take down flowering rush, it spreads the rhizomes throughout the lake starting new colonies of plants.

We have chosen and retained a specialist to assist with the selection of herbicides and with our herbicide application techniques. It is Professor Peter Rice. All chemical treatment will be done based on Peter's recommendations and EPA guidelines. He is currently working on a protocol for how the herbicide will be applied and what pre- and post data should be collected as well as the chemical treatment protocols including timing and chemical concentration. Expected timing for initial treatment would be early June.

Brad Roost of Cason and Associates, our current applicator of herbicide for Eurasian Water Milfoil, is our point person for treatment and data collection. He has written the Permit Application for Chemical Aquatic Plant Control that has been signed and submitted. It calls for treating a one-acre site using Renovate Max (Triclopyr and 2-4d) and a one-acre site with a combination of Triclopyr and Endothall (emergent and submergent chemicals) per Peter Rice's suggestion. Although the treatment areas are each less than an acre in size, the amount of space required for treatment will be larger due to dilution/dispersion. The chemical test sites were specifically chosen because they had significant infestations of flowering rush in 2006 (our first survey on flowering rush) and 2009 (our most recent survey on flowering rush), are somewhat isolated from other flowering rush plots, and the property owners welcome the research. The test plots will be in front of the Randy and Chris Olsen and the Tim and Lynn McGuire properties. Control sites are used for comparison with treated sites. No chemical applications and no pulling/cutting will take place on the control sites. The following property owners have volunteered as controls; Christine Murr, Gerry and Percy Blount, and Jim Berceau.

Cason and Associates will also collect the pre and post data, assuming that we cannot do it, and do a detailed flowering rush mapping survey in advance of the treatment. All chemical treatment will be done based on the EPA guidelines. All chemicals must be EPA and WDNR approved and we will follow the EPA application rates guidelines. The only limitation on the chemicals is that there may be some time period (usually 10 days) where water from the test site should not be used for irrigation. There will be some kill of native plants in the two test areas, but in the areas we have selected to treat, the natural vegetation has already been denuded or damaged by the flowering rush. Once the flowering rush is reduced or eliminated the native plants will have more space to regrow.

Your APM team talked to Greg Sevenser of the WDNR who suggested that we might try to "barrier off" part of each treatment area to reduce wave action and dispersion. Our goal would be to keep the

chemical concentrations high for a longer period of time. As of the current time we do not know how to create this “barrier” so ALA member suggestions are encouraged. Greg called Robert Rosenberger who is checking but believes a permit will not be needed for installing some type of enclosure at the treatment sites. Brenda Nordin of the WDNR is also very interested in our results and hopes to be on site when the applications are made. We are very fortunate to have such support from the WDNR.

Mark A. Heilman, Aquatics Technology Leader at SePRO Corporation is working with our APM team to determine if any chemical residue is left after a specified application period. He is working to get us some in-kind labor contribution to defray partial costs and maximize technical information generated. He will also be available to help us develop monitoring plans based on final treatment protocols. Again, we are very fortunate to have such qualified and enthusiastic professionals working with us on our grant.

The Board gave unanimous approval for the APM team to move ahead with the grant and spend the money as indicated with the caveat that it is reviewed as more specific plans are obtained and treatment is approaching. Thus far costs are falling within our prescribed grant money allotment. But the question could be asked whether the grant will cover the expenses listed on our grant application? The answer is “Yes” it will at a 75% level. The Association will be responsible for 25% of the costs just like we are in the EWM grant. That 25% can be paid in “donated labor” like hand pulling efforts, cutting efforts and removal of flowering rush from shoreline. More will come from communications with our membership and training our membership the proper techniques of pulling and cutting. Some will come from our Adopt A Shoreline and Clean Boats-Clean Waters work. The many avenues we have to earn 25% of the grant are really things what we have already been doing - just with more focus. It is also important that all of the hours spent doing this in-kind labor is recorded and logged so that we receive all of the money the grant has to offer.

Along with projects directly related to flowering rush, many activities are being conducted that affect the flowering rush activities.

- A) Continued water quality monitoring. Since the early 1980s members of Archibald Lake have been monitoring, water clarity, chlorophyll, phosphorous and dissolved oxygen allowing us to have a long-term picture of the health of the lake.
- B) Continue our Rapid Response Plan if other invasives found in WI lakes, like Curlyleaf Pondweed and Purple Loosestrife, enter our lake
- C) Continue our Clean Boats/Clean Waters monitoring of the public landing reducing the risk of future invasives entering the lake
- D) Adopt A Shoreline team is actively working to map flowering rush as well as observing shorelines for changes in the current invasives and look for other invasives that may enter our body of water
- E) Utilizing the comprehensive 858 Point Intercept Survey of Archibald Lake giving our flowering rush partners a wide-ranging knowledge of the horticulture in Archibald Lake.
- F) Launch a strategy to keep membership apprised of everything that is happening regarding invasive species

This all follows our writing of a comprehensive Aquatic Plant Management Plan establishing a baseline for the lake health regarding water quality and plant life.

It is important to remember that initially this is a research/control project funded by the WDNR. There is no tried-and-true method to take down flowering rush like there is for Eurasian Water Milfoil. We are scientifically testing herbicides to see if any are effective on Archibald Lake. Whatever we do will most likely take more than one year of treatment. Because flowering rush stores a lot of energy in the rhizomes (root) the herbicide must get into the rhizomes in order to kill the plant. We are going after the rhizomes. The experts we have selected are willing to work with us and guide our research

activities. Our goal is to find a treatment protocol that works in Archibald Lake and then use any remaining funds to do treatment on other portions of the lake. We would also like to collect the necessary data in such a way that our results may be applicable to other Wisconsin lakes with a flowering rush infestation.

Chemical application is only one portion of our grant. It is absolutely imperative that all of our lake association members continue to cut or pull flowering rush if they are able. If you are unsure how to properly cut or pull out the plant just call an APM member and he/she will be happy to come and show you.

Help the research grant by removing any flowering rush on your shoreline or join an Adopt A Shoreline and remove FR from non-cottage areas. Help your neighbors remove flowering rush from lake property. Or, sign up to help Clean Boats/Clean Waters monitoring the public landing. Anything you can do would be greatly appreciated.

The table below provides a list of actions that each of you can do to help our flowering rush efforts

Cut and Remove Flowers

Cut flowers as soon as they appear. Bag them and take to a landfill

When cutting, be sure the wind is blowing toward your shore.

Dig and Remove Single Plants

Dig single plants as soon as they appear with a shovel or by hand. Dig in a larger area than the leaves.

Because the rhizomes send out roots that form new plants it is imperative that the entire root is collected.

Digging and pulling will create fragments that must be collected.

Cut Larger Infestations

Using a large sheers or hedge trimmer (one can be borrowed from the Association) trim the leaves as close to the lake bottom as possible.

Do all cutting when the wind is blowing toward your shoreline

Collect all of the leaves that have been cut. They will float and need to be seined or skimmed.

Root fragments will be dislodged when cutting. They must be removed by seining or skimming.

All organic materials need to be transported away from the lake.

Why?

Flowers are a seed for flowering rush. If left untouched they will spread the FR.

If the wind is blowing toward the lake it will spread the FR seeds to other areas.

Why?

The earlier you dig – the easier they are to remove.

If root fragments break free they will re-root and forming another plant.

Use the Association skimmer and/or net to collect these floating pieces. Contact Betsy Nock for equipment.

Why?

Low cutting weakens the plant more because fewer nutrients are available to be absorbed.

Cutting with the wind blowing toward your shoreline reduces the chance of rhizome fragments spreading around the lake

The cut leaves will float and can be gathered in a mass and pushed to shore. Then they can be shoved onto the beach.

Removal is very important. Remove any chance of rhizomes or seeds getting back into the lake from either rain or wave action.

Apparel Sale by Joanne Boyer and Betsy Nock

The Archibald Lake Association will again be having an apparel sale this summer and fall season. New designs will be available on many different kinds of garments.

Designs and order blanks will be available on-line at the Lake Association website (www.archibaldlake.com) near Memorial Day and we will have samples of shirts, etc on display at the Annual Meeting on June 25th.

First orders will be due by the end of the day July 4th to Betsy Nock 16570 Appleton Lane and delivery will occur at the Archibald Lake picnic on August 6th. Second orders, for holiday gift giving, will be due in late October with delivery to occur during Hunting Season.

Volunteer Corner by Betsy Nock

“ I always wondered why somebody didn't do something about that. Then I realized I was somebody.”
--Lily Tomlin

As we begin another busy summer season at Archibald Lake, our association has many opportunities (and needs) for volunteers. Please look over these activities and see what you can do to help us help our lake.

The Clean Boats/Clean Water Program needs volunteers to donate 3 90-minute sessions per summer working at the boat landing. Training is provided. You can work with a friend or family member or we can team you up with someone. We prefer working Saturday or Sunday mornings, but any time that you can donate is accepted.

The Flowering Rush Grant needs volunteers to cut flowering rush in front of their own property and to assist other property owners who may need assistance. Please contact Cay Brusky at cay_brusky@sbcglobal.net.

The Shoreline Monitoring program needs volunteers to assist with monitoring one section of shoreline 3 times a summer. It will take about 2 hours per session to monitor and works better if you have a partner. Let us know if you need to be paired. Please contact Matt Marty at marwigs@chorus.net.

Brat Frys: If you are able to help on any of the days mentioned in the article on our Brat Frys, please contact Tim Counihan at 920.337.0549. We also need customers!

The Annual Picnic will be help on Saturday, August 6 this year. We will need volunteers to work before and after the picnic for set up and take down work. If you are interested in volunteering, please contact Kathy Wiggins at marwigs@chorus.net

The Golf Outing will be held September 10th, 2011 at the Nicolet Golf Course. If you are able to help solicit for raffle items or can assist Larry Market and Mark Hesselink, please contact Larry Market at 715. 276.6468.

Raffle Items are always needed for the Second Annual Raffle and the Golf Outing. If you have items that can be combined in a basket (hunting, fishing, boating, etc) or your business can contribute something, please contact Dick Rankin at Richard.Rankin@snc.edu.

If there are other ways that you can contribute your time or efforts to the Association, please contact Dick Rankin or Steve Fleming.

Community Information by *Tim McGuire*

The Town of Townsend held their annual meeting on April 12, 2011. There were many committee reports from various individuals including a report on the progress and activities by the Archibald Lake Association. Our report was given by the honorable Jim Weyers.

One of the reports given that may be of interest to our members is related to the Town's new part time police force. The Town was given some money to purchase a used police squad car and it is manned on a part time basis by Officer Michael Ashbeck from the Town of Wabeno. Officer Ashbeck reported that other than issuing a few OWI's, he has issued very few other tickets.

Under "Other Business" Mr. Claude Bowman, Town of Townsend employee, made a proposal to build a satellite fire station on County Road T near Archibald Lake. This motion would have been very beneficial to our membership because it would have probably reduced our homeowners insurance on our homes and cottages. Unfortunately the motion was voted down due to the high cost.

The "no wake hours" on lakes in the Town of Townsend will remain at 5:00PM through 10:00AM.

Web Site by *Steve Fleming*

The Archibald Lake Website, www.archibaldlake.com, has had minor updates over the winter. We were recently asked if anyone had an updated map of the fish cribs in the lake. The link to the map is on the website. We have also posted some pictures of the WDNR fish survey this spring taken by one of our members. New information will be posted as we receive it.

You can continue to find links to our supporting sponsors. More sponsors are always needed. If you know a business that would like to advertise on our web page please let us know. The annual cost is \$25.00.

If you have any questions, comments, or ideas for improvement please contact me at 262.993.4228 or stevefleming77@earthlink.net

Note:

We have 2 blue and white webbed lawn chairs left at the Archibald Lake picnic last August. Please contact Betsy Nock (715.276.6633 or eanock@granitewave.com) to make arrangements to pick them up

ALA Board Members

Cay Brusky

Phone: 920.731.1478
Email: cay_brusky@sbcglobal.net
Fire #: 16659 Archibald Parkway

Tim McGuire

Phone: 715.850.0501
Email: timandlynn@granitewave.com
Fire #: 6710 Topper Ln

Dick Rankin

Phone: 920.494.4887
Email: Richard.Rankin@snc.edu
Fire #: 16673 Bells Point Rd

Tim Counihan

Phone: 920.337.0549
Email: tcounihan@att.net
Fire #: 16667 Bells Point Rd

Gary Miller

Phone: 920.740.5746
Email: Archylake@sbcglobal.net
Fire #: 16562 Appleton La.

Jim Weyers

Phone: 716.276.6872
Email: jweyers@granitewave.com
Fire #: 16682 Old Camp Point Ln

Steve Fleming

Phone: 262.993.4228
Email: stevefleming77@earthlink.net
Fire #: 16506 Appleton La.

Betsy Nock

Phone: 715.276.6633
Email: eanock@granitewave.com
Fire #: 16570 Appleton Ln

Kathy Wiggins

Phone: 608.249.5898
Email: marwigs@chorus.net
Fire #: 16560 White Pine Ln