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FALL/WINTER - 2018

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Summer Sunsets
are now just a memory

photo by Ellen Butler

WHAT'S
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Letter from the Chair

by JOHN WEBER

Hello everyone

By now everyone should be prepared for winter. Hope everyone is doing well. I do not have very much to comment about this year. A reminder to everyone that two board positions will be open this year at our annual meeting on July 20. John Breigel and I have served for the past six years, so now it's time for some new thoughts and ideas.

At the Annual Meeting, we had a preliminary report from Barr engineering about our plant study and invasive species. Generally everything is in good health with no new problems. There are several areas with yellow iris, which is considered invasive. At our last board meeting, it was decided to follow the DNR and Barr Engineering recommendations for treatment administratively, as the cost should be nominal. Costs will stay within all guidelines.

The DNR has also raised an issue about the water balloon fight during Fourth of July events. The boat parade and all of these things have been a tradition on Half Moon Lake for many years, and as always there are folks who are in favor of it and others that are less so. A volunteer committee has evolved to investigate a resolution. At this time they are looking into making our Fourth of July weekend festivities a more formal event and obtain a permit from Milltown Township. Further updates will be provided as they become available.

Last year we requested and obtained a goose permit to reduce the goose population on our lake. As we commented earlier, the goose population was almost nonexistent so the roundup was not held. The necessary reports have been filed along with a request to renew the permit for this coming year in the event that it is necessary.

Again hopefully everyone will have a wonderful winter and holiday season and we look forward to seeing everyone next year.

John N Weber, President



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paperworx@amerytel.net

2018 HALF MOON LAKE 4TH OF JULY BOAT PARADE DECORATING CONTEST WINNERS



The Gislason Johnson family group won Most Creative Boat Decor for their Vikings/Skol boat.



The Annual Half Moon Lake Parade included a Decorated Boat Contest. West Side judges included Sue Schneider, pictured here with friends and family.



Alison Benike of Breezy Bay won the Most Unique Boat Decor Award for her Loon Boat. She won a \$50 gift card.



East side judges were Mary Beth and Eric Johnson. Sheila Waldoch served as the tie-breaker.



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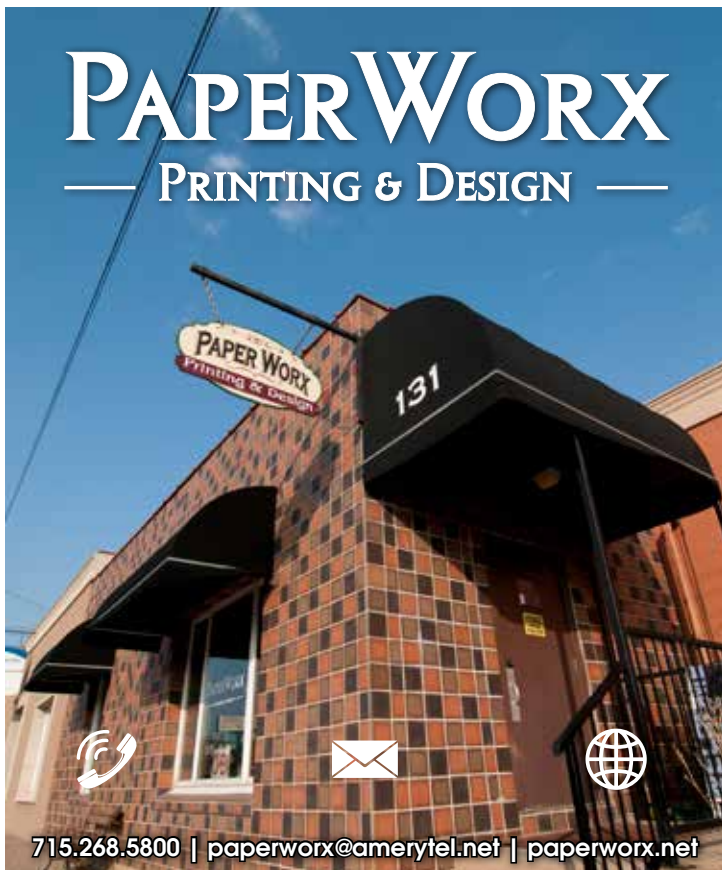
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An early winter is here, but I feel like I just blinked and it was last spring. As some of you know, I ran for Wisconsin State Assembly this past fall and while the election didn't turn out as I'd hoped, it was a great experience. I learned a lot about our state and our county. I'd like to thank all the lake folks who donated or helped - I would have worked hard to protect our lakes, and your support is appreciated. I have some new opportunities in the works, and will continue to stay busy with local issues and projects. But I will say, I missed my summer on Half Moon Lake. Every weekend as I got ready for yet another parade or door knocking session, I thought, "Gosh, I'd like to take the pontoon out with a good book and spend the afternoon floating around." So I am eagerly awaiting summer 2019 to make up for lost time. Anyone who is a full time resident, please think about getting involved with our School Board, Town Board or County Board. These board members take care of the day to day things like roads and zoning issues, and their work is invaluable.

Some of you may remember Jim Benike speaking about his efforts at eradicating buckthorn on his property at this year's Annual Meeting in July. I'd asked him to write up his experience, and he has lots of good tips. We also look at the weed study commissioned by the Board, which brings good news.

As always, please share any photos or story ideas with me at HalfMoonlakeloonlines@gmail.com. Please encourage any new neighbors to reach out to me this same way.

Make your new 2019 calendar for our Annual Meeting and Picnic, Saturday July 20 at 10 a.m.

See you next summer.

Kim Butler
Editor

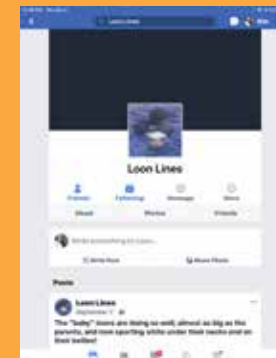
*Editor's
Column*



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This is an online neighborhood bulletin board that could include topics like storm damage, free stuff, recommendations for plumbers or caterers, suspicious activity, buy and sell, etc.



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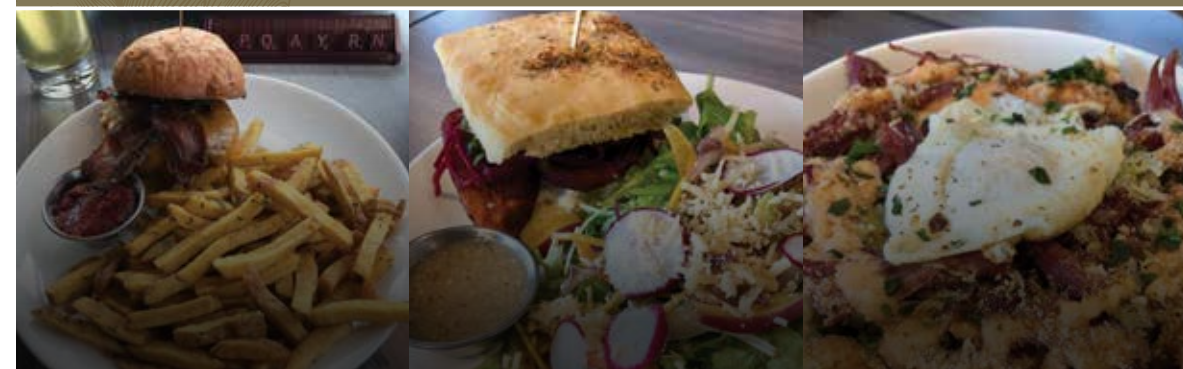
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Water Balloon Fights will result in \$200.50 Littering Citations in 2019



The balloon has popped on Fourth of July water balloon fights. The traditional water balloon fight that occurs at the end of the HML Boat Parade must be retired according to our local WI DNR Warden. This past summer, two wardens were on Half Moon Lake issuing safety warnings during the festivities. They observed many safety violations and noted that several boats have been damaged in past years. (Ed. note: Our old pontoon started leaking after a boat parade/water fight years back, so I don't doubt this.)

The warden was more concerned with the water balloon fight that occurs after the parade. He noted that throwing balloons into the lake is no different than dumping an ashtray or a beer can into the water.

Balloons can be mistaken for food by wildlife, including birds and fish, and cause them injury or death according to both the local fisheries biologist and the local wildlife biologist. In the past, the Lake Association provided biodegradable balloons for a couple years to residents, but decided to discontinue this practice. It is impossible to know what kind of balloons residents have been using more recently. The damage to wildlife can occur with either biodegradable or conventional balloons, but the conventional latex balloons can remain the lake for years. Some lake residents are well aware of the many balloons that wash up on their shoreline the next day. The wardens did not issue citations this past year, but they warn they will be out in force next summer, and will issue citations in the amount of \$200.50 for water balloon throwing.

Water balloons can cause injuries to humans too. Balloons launched with slingshots and catapults that inadvertently hit someone's face can cause serious eye injuries including blindness, detached retinas, bone fractures, and torn irises. Balloons shot from slingshots can reach velocities of 92 miles an hour, which is approaching the speed of a baseball thrown in a Major League game.

The warden is fine with water blasters, NERF water guns, Super Soakers, and similar water toys. However, boaters should be careful to follow all normal safety regulations during any activity. They will issue citations for unsafe boating activities. Please pass this information on to your guests and other lake visitors.



GLIMPSES OF THE LAKE



ONE OF THE RESIDENT BALD EAGLES OF HALF MOON LAKE WATCHING FROM HIS PERCH. PHOTO BY CHUCK KNAPP. SHOT USING 18-400 TAMRON LENS ON A NIKON 7000.



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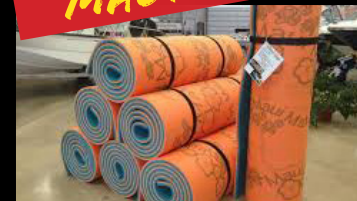


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In Loving Memory



We are sad to report that one of our newer Lake residents and volunteers, Pat McKee, passed away as this issue was going to print. The Half Moon Lake family extends their deepest condolences to his wife, Rita, and their family. Pat and Rita moved to the north end of Half Moon Lake a couple years ago, and Pat was running the Alternative Degree Program at Unity High School.

It's Easy Being Green

Since local garbage haulers do not pick up recycling, you can cart it home with you or bring it to several convenient locations near Half Moon Lake.

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Little Green Men Invade Half Moon Lake?

Jim Benike alerted us to a charming new tradition on Oscar Lane, involving the Step2 Kid Alert “Little Green Man” safety figure often seen along roads and driveways to encourage drivers to slow down and use caution. The Oscar Lane Labor Day Weekend “Dress Your Little Man” Contest, any sex, was won by Charlie Neumann. He won a gift certificate to the Balsam Lake ice cream store. We are going to make it an annual event. Amazon will deliver a Little Man to your door for under \$40. Congratulations Charlie!



WINNING ENTRY CHARLIE NEUMANN



TROPICAL LITTLE GREEN MAN

LOON REPORT Fall 2018



After laying two eggs and abandoning their first nest due to the presence of black flies, the pair of loons on the north end of the lake had a successful second nesting attempt and produced two chicks. Both chicks survived predators but unfortunately, one of them developed a tumor on its leg which precluded it from being able to dive for food. Lake residents noticed this growth and contacted Tammi's Wildlife and the DNR. The loon was captured and taken to the Roseville Wildlife Rehabilitation Center. Surgery to remove the tumor was successful but unfortunately, the loon passed away during recovery. Its sibling survived the summer and was seen on the lake as late as October 18th. The loon pair on the south end of the lake was seen performing the mating ritual but never went to nest. The old loon platform had finally succumbed to nature leaving them no suitable nesting site. Thanks to the efforts of Doug Ebeling, a new platform was built; we anchored the new platform in place in mid-October. Hopefully, we will have two pairs of loons nesting on Half Moon Lake next spring. This fall our two pairs of adult loons began their migration to the Gulf of Mexico about the second week of September along with an immature loon that spent the summer on our lake. Its presence was a rare occurrence as normally immature loons don't return north until they are three years old and have adult plumage.

The first loons to leave in the fall are the floaters; loons who have no mates. The loon parents follow next and their offspring are the last to leave. Loons

tend to gather in large groups called rafts as they begin migrating. In the Midwest, Lake Michigan is a favorite staging area for hundreds of loons to feed and fatten up before their long flight. Adult loons spend two to four weeks in Lake Michigan gaining strength before traveling at speeds up to 65 mph making their two to three day jaunt to the Gulf of Mexico. One documented study tracked a loon traveling 670 miles within a 24 hour period. In another case, a loon flew distances of 360 and 505 miles during two consecutive days. The distance between their breeding and wintering grounds ranged from 1,170 to 1,570 miles.

Depending on weather conditions, the juvenile loons stay on their lake of birth through October and sometimes into November maturing, feeding, and practicing flying. They will not return to their territorial birth grounds for three years. It is not known how the young loons know where to migrate; according to Loon Watch, they are hard wired at birth for migration. It was thought that they stayed in the Gulf all three years; however, banding has shown that some of them travel to the Gulf of St. Lawrence during the spring and return to the Gulf of Mexico during the winter months. If you have any questions regarding loon behavior, please feel free to contact me at tmechelke@gmail.com. I will be more than happy to attempt to answer your questions.

Pat Mechelke
Half Moon Lake Loon Ranger

Lake Health and Water Quality has improved since 2007

CURLY LEAF PONDWEED STILL A THREAT, ALONG WITH 4 NEW AQUATIC INVASIVE SPECIES

A study of lake plants and weeds was completed this summer on Half Moon Lake, and results are positive. First off, there was no evidence of Eurasian watermilfoil in our lake. Eurasian watermilfoil is the 'Mac Daddy' of non-native invasive species, wreaking havoc in Lake Minnetonka, and is present in many other lakes including 4 lakes in Polk County (Horseshoe, Long Trade, Pike and Cedar.) Secondly, while another invasive, curly leaf pondweed was found at six locations, it has not increased very quickly or substantively since it was found in a similar study in 2007. Finally, the lake water is clearer than 11 years ago, and there is a greater variety of plant species, all of which indicates that Half Moon Lake is one of the healthiest lakes in the area. Barr describes the plant community as "healthy, diverse, and of high quality." In short, the overall health of the lake is better now than in 2007.

The study was done by Barr, a large environmental consulting firm from Minneapolis in late June of 2018. They mapped out the lake, creating a map of 734 equally spaced survey points and used a weed rake to harvest weeds to catalog and identify. They shared their results and the Lake Association will move forward with eradication where it is recommended, working with the Wisconsin Department of Natural Resources and obtaining permits for herbicide applications.

Over all, 58 different species were observed. This is 4 times the median number for lakes in the same eco-region, which is very good. They observed the maximum lake depth to be 63.5 feet, and they found plants up to a depth of 25 feet. 213 sample points had vegetation, out of 335 points located in the region where plants can grow. Density of plants is in the lower third of their scale, meaning the lake is not overgrown, and diversity of different kinds of plants is also high which indicates a healthy lake. Also the plants they found are not tolerant to development and human disturbances, which means we've all been good neighbors and human activity has not degraded the plant community.

A similar survey was done in 2007 in mid July. A few weeks can make a difference in algae growth, but in 2018 they found filamentous algae in fewer sites this summer.



2018 locations of Curly Leaf Pond Weed, the Aquatic Invasive Species we are most worried about. Growth is contained at the north end of the lake, and will be treated with herbicide.

Where in the World is Half Moon Lake?

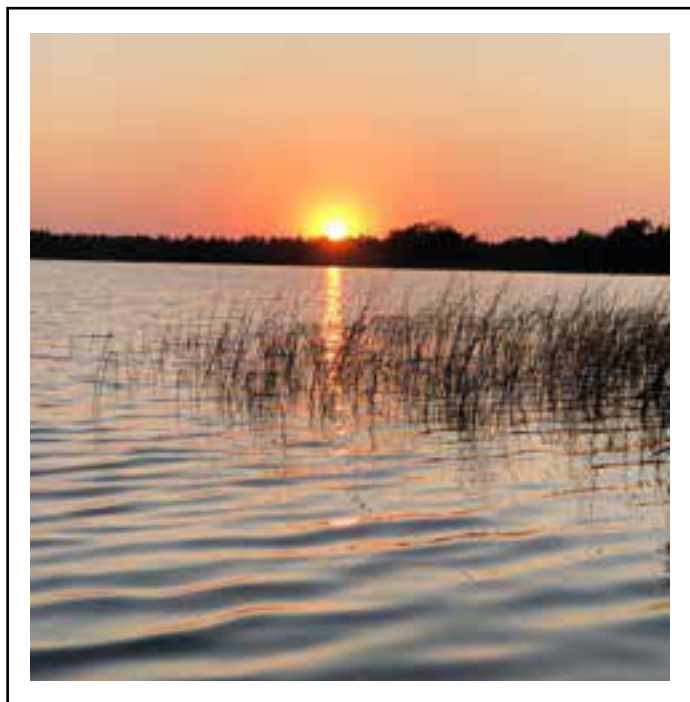
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Two of the Campbell boys check out some western lakes with wildlife you don't often see in Wisconsin, and certainly not in Half Moon Lake. Cameron and Owen Campbell, grandchildren of Pat & Mike McMahon, visit Yellowstone NP.



Chris Nelson is our County Supervisor for the Milltown area. He checked with the Polk County Zoning Administrator on information relevant to lake shore owners:

A COUPLE NEW POINTS TO MENTION ARE:

- **Conditional use permits are now reviewed and acted on by the Polk County Environmental Services Committee.**
- **A land use permit can be obtained for a reduced town road setback if the applicant receives approval from the town in writing.**

Chris also checked with the Polk County Land and Water Resources Board :

- 1 Zebra mussels have now been found at several locations in Deer Lake. So far the infestation is in the early stages. Dock owners have to look closely to find a zebra mussel on their dock, usually in the wheels. (Ed. note: for a in depth look at Zebra Mussels, see your Summer 2018 issue of Loon Lines.)**
- 2) We are planning on Citizen Lake Monitoring and Clean Boats Clean Waters training in spring 2019 for all lakes that wish to participate.**
- 3 We are in the early stages of developing a new Polk County Land and Water Resources Management Plan. The plan is scheduled to go before the state Land and Water Conservation Board for review in December 2019.**

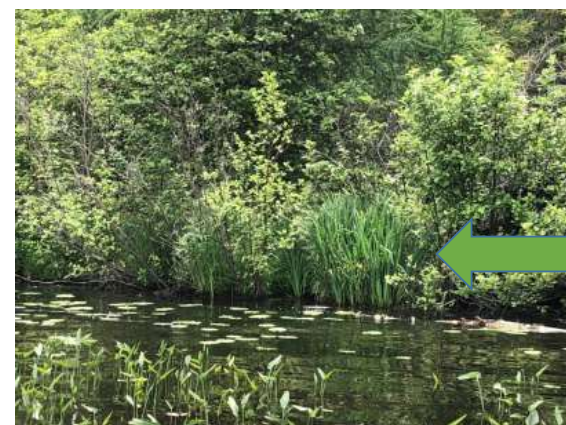
Curly-leaf pondweed was collected at 4 locations and observed at 2 additional locations in 2018. Curly-leaf pondweed was present at 3 sample points in the lake during 2007 when the DNR completed a plant survey. There is a possibility that the 2007 study occurred when the curly leaf pondweed was already dying off, whereas the 2018 study measured when it was at its peak. So it may not have actually increased. But to keep it from becoming a problem, Barr recommends treatment of the sites with herbicide, and a follow up weed study every 3 years. Treatments may need to occur over several years, as the seeds can remain viable for years. All of the curly leaf pondweed was located at the northwest end of the lake, nearer to the main public boat launch.

Yellow iris is a non-native invasive species that was observed at two locations along the northerly western shoreline of Half Moon Lake. Another clump was found in the southernmost point of Breezy Bay. The map shows the two sample points from which two yellow iris patches were identified. Barr recommends that the yellow iris patches be removed before they have a chance to spread and take over the shoreline. From the pictures, it looks like the patches of yellow iris may be too large to remove by hand. The WI DNR recommends using a herbicide, glyphosate (Round Up) for their removal if the patches are too large to remove by hand. A DNR permit would be needed to remove the yellow iris by herbicide and it is necessary for the yellow iris to be flowering at the time of removal so it can be verified that the plant is the non-native invasive yellow iris with the yellow flowers rather than the native blue iris that has blue flowers. Native Blue iris is a desirable plant.

OTHER NON-NATIVE INVASIVE SPECIES OBSERVED:

- Reed canary grass was common but not overly invasive except in a few highly disturbed areas near the main boat landing.
- Common forget-me-not was only seen in a patch just south of the boat landing, although it is probably present elsewhere.
- Hybrid cattail was common and appears to be displacing the native cattails in many areas of the lake. Hybrid cattail is a cross between the native cattail and the non-native cattail, hence a hybrid. Hybrid cattail was spreading along the northwest shorelines of the lake; seems to be expanding outward.

All told, it looks like the efforts of residents and the Half Moon Lake Protection and Rehabilitation Board are working, though we need to remain vigilant. Being good stewards of our lake at our cabins, by using buffer zones, planting native plants, and limiting and/or carefully using fertilizer in our lawns is effective. Continuing the Clean Boats/Clean Waters paid staff at the main Boat Landing helps prevent weeds and other invasives from nearby lakes from being brought into our lake. And finally, continuing to do weed studies, and following the recommendations for weed eradication will hopefully keep our lake clean and healthy for the future.



Stand of invasive Yellow irises on north shore of lake - Photo , Barr Engineering



Native Blue Irises are desirable, but this clump of Yellow Iris near the southern tip of Breezy Bay must be removed- Photo , Barr Engineering

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A LOOK BACK AT THE CREATION OF THE HALF MOON LAKE CONSERVANCY

by David J. Butler

EDITOR'S NOTE:

We are fortunate to have a Conservancy helping to protect our lake. Deer Lake is perhaps the only other county Lake with a Conservancy, and theirs is newer and smaller.

It was at a Half Moon Lake meeting in 1980 that Gordy Mommsen introduced me to the perils of too much nitrogen and phosphorus in the lake. He demonstrated with a model he had built, how the accumulated phosphorus at the bottom of our 60 foot deep lake could be pumped out. He explained that Half Moon was one of the clearest lakes in the county, and it could be kept that way by keeping the phosphorus in the lake to a minimum. Money was never available to do the pump project, but for me it was the beginning of a search to find ways of reducing phosphorus in the lake. I found literature on the subject which explained how the wetlands acted to filter the phosphorous from the surface water before it entered the lake.

When the McClain property on Harder Creek came up for sale, a friend said to me, "More than 50% of the water coming into the lake, comes through the creek on that property. The beavers have built dams that have created beautiful wetlands that filter the phosphorous out of the water before it gets into the lake. If you will set up a Half Moon Lake Conservancy to hold the property and maintain the wetland, I will put up the money to buy the property and give it to the Conservancy." The land was purchased and the Conservancy was established in 2003. The creek also runs through the Richard Kaiser property to the south toward the lake and he has dedicated his property to be preserved as a wetland along the creek. The Conservancy has created a nature trail along the east side of the creek and Hunter Johnson and his boy scout troop have installed two benches at viewing spots along the trail. The Conservancy has contracted with the Balsam Lake Pro-Lawn Nursery to conduct an experiment with the growing of prairie flowers on the higher ground of the property.

The Board then focused on protecting the wetlands of Tamarack Creek through which water flows into Tamarack Bay, the opening to which is north of the public beach. An interested owner made a gift to the Conservancy of 35 acres of land through which the creek flows and which borders Tamarack Bay. The Conservancy wanted the land to protect the wetland on the creek and to deter development alongside of Tamarack Bay.

Four of the original board members of the Conservancy, Gordy Mommsen, Florian Lauer, Herb Baldwin and myself have decided its time to step back and let the younger folks take over, so we will now be "Honorary" members of the Board. Ellen Butler, the current President, has put out a call for interested persons to get in touch with her if they would like to help. She can be reached on her cell ph: 612-964-1024, or by email: ellenk@visi.com. Additional current members of the board are Sheila Waldoch, Dr. Eric Johnson, John Weber and Bob Cutshall.

David J. Butler
ph. 612-798-0402
email:david.butler@q.com



Some Half Moon Lake Conservancy Board members are led on a hike by Richard Kaiser on his land this past October. They are inspecting a pond created by beavers which helps filter and clean water entering our lake.

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16 BUCKTHORN - A GOOD THING GONE BAD.

Buckthorn negatively impacts our environment in multiple ways!

In the early 2000's, I was shocked to see Buckthorn shrubs being sold at the Marketplace Garden Center on Highway 8. Buckthorn had long been prohibited in Minnesota, but Wisconsin can be a little slow on the uptake with environmental protections. Common and Glossy Leaf buckthorn are both listed as "Restricted" in WI. It's possible that I saw a non-banned species, but common and glossy buckthorn have been banned in many states, since as early as the 1930's.

Buckthorn first was imported from Europe as an ornamental shrub in the mid-1800s. It now is illegal to import, sell, or transport it in Minnesota, but the plant still has spread into 68 of the state's 87 counties by an unpredictable courier: bird poop.

Buckthorn is a prolific berry producer. Birds eat the berries, but it's not nutritious for them. It causes them to have diarrhea. Birds transfer the seeds to other places, where the plant starts growing.

Recent studies are showing the invasive plant is affecting the landscape in even more profound ways.

BUCKTHORN CAUSES RUNOFF INTO THE LAKE

Buckthorn's root systems are shallow — nothing else grows underneath, so you get erosion and runoff. Buckthorn leaf litter decomposes quickly, often leaving bare patches of soil beneath. This bare soil beneath a buckthorn thicket can add sediment to an adjacent river or lake, polluting the water.

BUCKTHORN HARMS OTHER WILDLIFE AND ENCOURAGES TICKS

In addition, salamanders and snakes use leaf litter as habitat, and when an area is overtaken by buckthorn, they have no place to go. Research has shown that a chemical in buckthorn can kill or cause malformations in amphibians, including blue-spotted salamanders and frogs. Buckthorn is also very detrimental for wildlife, such as ground-nesting birds that no longer have cover for their nests. Wildlife habitat value is reduced but tick-borne disease habitat is increased as the dense buckthorn foliage (with its higher humidity attracts black-legged ticks. The dense foliage also attracts the mice and chipmunks that carry the ticks.

Buckthorn plants serve as a host to other pests, too, such as crown rust fungus and soybean aphids. In Europe, where buckthorn originated, the plants are kept in check by insects and diseases native to those countries. However, those checks have not yet developed in the United States.

BUCKTHORN PREVENTS NATIVE WILDFLOWERS

Furthermore, the early green up and late leaf retention harms and kills native plants, especially spring wildflowers in the forest. Wildflowers have adapted to taking advantage of that brief period in spring when it's warm enough to grow but the trees haven't leafed out yet so they have access to full sunlight. However, when buckthorn leafs out earlier, the window closes too quickly for the spring wildflowers to complete their life cycle.

Getting rid of buckthorn needs to be a cooperative effort among all neighboring landowners, private and public. Controlling an invasive is not a "once and done" event, but a long period of treat, monitor, treat, monitor until the pest is controlled. Landowners should set up an ongoing, yearly buckthorn inspection and treatment schedule on their property, maybe a few weeks before deer hunting season.



This is a buckthorn stump that has a Buckthorn Baggie properly attached to it. No need to use a puller or broom to remove the stump. Eradication of buckthorn can also be done with no chemicals.



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Benike's Buckthorn Battles

One Homeowner does battle with an invasive species on east shore of Half Moon Lake

By Jim Benike

An invasive species has hit Half Moon Lake right up to the shoreline. It's buckthorn. If you have wooded property and live on the east side of the lake, you probably have buckthorn. We spend a lot of time and money protecting the lake, but the buckthorn has snuck up behind us. If you can't see more than ten feet into your woods, you have buckthorn.

Buckthorn is an invasive species in Minnesota and Wisconsin. Each state has good information on identifying and controlling buckthorn.

WWW.dnr.state.mn.us/invasives/terrestrialplants/woody/buckthorn/index.html and

WWW.dnr.wi.gov/topic/invasives/fact/commonbuckthorn.html.

The worst buckthorn are the plants that have berries. They look like a green pea in July and August and a blueberry in October and November. Cut the berries off to at least stop the spread by birds. Amur Honeysuckle has red berries.

Buckthorn stops the other plants from growing by blocking the sunlight and having an extensive root system. Your woods may have a nice mix of oak, maple, pine, and birch, but they will all be old trees as the buckthorn isn't allowing any young trees to grow. When your old trees mature, you'll be left with nothing but buckthorn.

Unfortunately, our property had old buckthorn. The trunks were up to eight inches in diameter. They required a chainsaw. The majority of buckthorn that I see is four inches or less. These can be cut with a pruning saw or lopping shears.



Once the buckthorn is cut, there is a secondary problem: the roots, as it will regrow. The plant will be smaller the next year, but unless you remove the roots, it will be back. I hate to use the word, but "chemicals" are the only other solution other than removing the roots. I tried removing the roots. It's hot, back breaking work unless you use heavy machinery. There are chemicals listed on the MN and WI websites. I've found that brush killer and Roundup tend to just make the buckthorn sick for awhile and doesn't kill it. I use Alligare Triclopyr4 and Tordon RTU. Amazon will deliver right to your door so you don't have to visit an agricultural store as home and garden centers don't carry strong enough chemicals. Mix the chemicals per

instructions. If cutting buckthorn I put the chemicals in a hand sprayer to spray the stump. If spraying a large infected area of small buckthorn I use a good quality garden sprayer so I can point spray 12 feet away if necessary.

OVER THE YEARS I'VE LEARNED A FEW POINTS:

- 1 If you don't pull out the roots or spray you will be doing the same work again next year.
- 2 One can mow buckthorn but the thorns will give your lawn tractor a flat tire.
- 3 MN and WI really want you to get rid of buckthorn. They spend thousands of dollars clearing public property to get rid of buckthorn.
- 4 The berries can be viable for up to five years. Don't be surprised after cutting down a big buckthorn you see small plants the next year from old berries. They can be eliminated by hand pulling or spraying.



If you aren't sure you have buckthorn, ask a neighbor. My neighbors are all active in getting rid of buckthorn. In some cases they just didn't know what it was or why it had choked out their raspberry patch. Once we got rid of the buckthorn the raspberries came back.

Buckthorn is one of the first to leaf out in the spring and the last to lose its leaves in the fall. When you are raking leaves in the fall and you see green it's buckthorn. Fall is the favorite time to cut buckthorn. It's easy to see, cool temperatures, and no bugs.

If you have a big buckthorn that requires a chainsaw let me know. I'd be happy to help cut it.

Jim "Bucky" Benike. 1971 Oscar Lane

EDITOR'S NOTE: the Maplewood Nature Center has the following advice for spraying:

Protect yourself and others: Always use caution when using chemicals. Please wear protective gear. Old clothes (long sleeves and pants), eye protection, rubber gloves, and rubber knee high boots are recommended. Remove footwear outside. Always wash this clothing separately from other household laundry.

- Glyphosate (Round Up) products at a concentration of 25-27% active ingredient. Treating with and herbicide works best in the fall as the sap is flowing down towards the roots.

- Triclopyr products at a concentration of 8% active ingredient. This is what Jim has had success with.

The herbicides listed above should not be used near water - they kill aquatic life. Do not use near storm sewers, wetlands, ditches, streams, rivers, lakes or ponds. If you are removing buckthorn near areas with water, use Rodeo herbicide (at a 25% concentration.)

Mixing the herbicide with a blue dye or food coloring will make it easier to keep track of what was treated

