

LAKE CARMİ ASSOCIATION NEWS

September 2017.....**One Happy Lake....** Volume 11, Number 5

Brought to you by the Lake Carmi Camper's Association, Inc., and other fine sponsors.

Larry Myott, Editor.....Larry.Myott@uvm.edu..... <http://lakecarmi.mylaketown.com/>

New President Elected

At the LCCA annual meeting on August 12, Ruth Ann Kraysky of Camp Road was elected president. She writes: "Since I am your new president, I thought you might like to know a little



about my connection to Lake Carmi. My family started coming here in the late 1940's. My parents' first stay on the lake was as part of their honeymoon trip. Four generations of my family have vacationed on Lake

Carmi. We could not wait to come to Franklin, from New Jersey. I still cannot wait to come back in the spring.

I've rowed a big wooden boat, bowled at the Bowling Alley, danced at the Lake Carmi Pavilion, partied on Tug Boat Annie, water skied behind a boat with three five horse power motors (nobody had a big motor, but we all had fives), and taught swimming lessons with Irwin Weiss. I've been here a long time, actually living the modern history of the lake!

In the late fifties, campers on the lake began getting together to talk about the water quality; the Lake Carmi Campers Association was born. I am proud to say, my Dad, Stanley Cozza, was the first secretary of the LCCA. The LCCA had its modest beginnings, in potluck suppers, very simple boat parades, and water activities in front of the bowling alley. I love Lake Carmi.

One of the reasons I became a teacher was so I could continue to summer here. As your president, I will work very hard with the board to improve the water quality of our lake. I hope to continue the wonderful work that Peter Benevento has started. I hope all of you will join us in these endeavors. Ruth Ann can be reached at 802.285.6891 at 97 Camp Road.

Elections Report, Annual Meeting

As you read, we have a new president; we also have a new secretary. Past President Pete Benevento has been elected Secretary for a two-year term. Two officers are elected each year for a two-year term and can only serve for three two year terms (six years). The By-Laws of the LCCA are printed each year in the annual directory. Elected to the Board of Directors in August were: John Costa of Shore Road and Hilda Hendrickson of Vic's Crossing to three-year terms ending in 2020. Kyle Laurie of Franklin and Mullin Shore Road was elected to fill an unexpired term of one year, ending in 2018.



Greg Tatro of the Red Team in the Pontoon Boat Relay Race (center) was presented the Winners Trophy at

the annual meeting by event chair Bob Lumnah and LCCA President Pete Benevento. The planning committee for 2018 has already met, making plans next years great events.

Cottage Tour Success Celebrated



Polly Gadbois, chair of the Cottage Tour thanked all the hosts of the LCCA Cottage Tour at the annual meeting. Here she presents Katie

Thompson a certificate of appreciation for hosting. 142 tickets were sold for this LCCA fund raiser.

For Sale, For Rent

Paid members are permitted a free classified ad in the four issues of the season. Merchandise ads are only for two issues unless renewed. Camp rental ads can run for the whole season. However, if you have no more availability, please notify the editor.

Cottage Rentals for 2018, prices may be subject to change.

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The lake doesn't care if your hair is unkept
The lake doesn't care how much money you've spent.

The lake doesn't care how healthy you eat
The lake doesn't care if your room isn't neat.

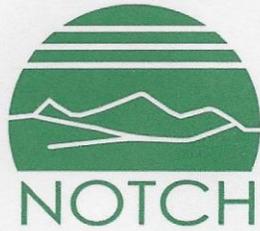
The lake doesn't even care if the clouds hide the sun
The lake only cares that you're there, having fun.

Poetry by Judy, Lauren & Paul Boutin, July 2016

Birder Debbie Bushey Writes

A great place to go birding this fall is the 6,000-acre mouth of the Missisquoi. It is the Missisquoi National Wildlife Refuge. It's a wetland wonderland for birds and wildlife. It is host to Vermont's largest Blue Heron rookery. There is a Black Tern colony too, as well as a population of Pied-billed Grebes. There is no better place to welcome all the migrating waterfowl in the fall.

Much of the refuge is available by boat only affording the full experience. Shore birds will be most visible by boat. There is a great Welcome Center, with exhibits and a free map of the refuge. Follow the signs of Route 78 just before the bridge to the Lake Champlain Islands.



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Thanks to Our Legislators

We offer thanks to our legislators who came to our annual meeting on August 12 in Franklin. Senator Carolyn Branagan of Georgia is no stranger to Franklin and was happy to be part of our meeting. As were Dan Connor of Fairfield; Barbara Murphy of Fairfax; Corey Parent and Kathy Keenan of St. Albans.

The program with our legislators was on first and moderated by director Larry Myott. The forty minute discussion related to the work of the legislature about water quality in both Lake Champlain and Lake Carmi. Several questions required explanations of the work of the legislature, committee and more. It was a very interesting program, providing lots of information to the 60 plus members in attendance.

The Shoreland Protection Act, (Chapter 49A of Title 10 §1441) establishes a state regulation for guiding development within protected shoreland areas, 250 feet from the mean water level of all lakes greater than 10 acres in Vermont. The intent is to prevent degradation of water quality, preserve habitat and stabilize shorelines and maintain economic benefits.

New Game Warden at Lake Carmi



We've been seeing a new Game Warden on the lake, at least new to us. He's out there regularly enforcing Vermont laws and providing educational

opportunities for our residents and guests. Game Warden Josh Hungerford of St. Albans is shown here checking licenses off the Hammond Shore recently.

The Game Warden's boat is housed at the Lake Carmi State Park so it's easy for him to get on the lake. Warden Hungerford can be reached through the State Police dispatcher, 802.524.5993.

There has been a healthy looking fox around the Hammond Shore area for some time; it's not afraid of humans. "Do not feed it or try to get near it"—words from the game warden.



Aquapalooza 2017, On August 26 an impromptu event took place providing lots of excitement to many folks from all around the lake. This is believed to be the first annual Aquapalooza as many boats were tied together making a sizable second island on Lake Carmi. Friends and family gathered from around the lake. Fun for all ages. Grilling all-day too. All types of boats and water toys too. Social conversation and a great time to meet and hang out with your lake family. Kevin Lothian is quoted as saying, “Hope to have this an every other day event, it was so much fun.” The event started at about 11:30 a.m. and went until sunset. Scott Choiniere says, “lots of Happy Campers on Lake Carmi.” It is believed that Rhonda Fletcher of Camp Road was the organizer. How many boats and folks participated? We don’t know.

Emily Porter-Goff, FWC Coordinator



Last month Emily Porter-Goff joined the Franklin Watershed Committee as coordinator. She was born and raised in Vermont. She says she spent a lot of her childhood on her grandparents dairy and maple farm, a way of life for the Porter family.

At home, she spent most of her free time splashing in a stream or tromping through the woods in her mud boots. She says she was destined to spend her life enjoying the out-of-doors. She earned her BS degree from Russell College (Troy, NY) in Environmental Biology. She then went to Rensselaer Polytechnic Institute for a Ph.D. in Freshwater Ecology.

After nearly a decade of life in the city, in search of something new, she spent two years as a postdoc fellow at Trent University in Peterboro,

Ontario. She says, finally, “the stars aligned and we came back to Vermont.” Over the last few years, she and her husband have been doing large projects on their 1880 farm house. “Here, I am taking part in the most fascinating science project of my life, watching my children grow. I have loved being home with them but I have also missed working for the environment. I am so excited to join the Franklin Watershed Committee in their fight for Lake Carmi. Let’s do some great projects together and reduce those nutrients.”

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September Happenings Looking for something to do in September. Our Haston Library can help, they have passes for several different attractions, and some are free. You can call them and make your reservations for passes at ECHO in Burlington, Shelburne Farms, Birds of Vermont Museum, State Parks, Vt Historical Museum, and the Southern Vermont Natural History Museum. Email: librarian@hastonlibraryvt.org or call to reserve, 802.285.6505.

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Our loyal advertiser, **The Pine Cone**, on RT 105 in E. Berkshire has closed for the season. They'll be back for the 2018 season, come April.

Pete Benevento is Back!

I had to vacate the LCCA Presidency due to term limits so I thought I wouldn't hear from you know who. No chance. My editor called and asked me to write the FWC column which will be my pleasure. I have been associated with the FWC for more than ten years and am proud of its service to the Franklin community.

The Franklin Watershed Committee originated as a subcommittee of the LCCA. It later evolved into its own corporate entity and was granted 501(c) (3) tax exempt status. The FWC has contracted with a part time paid coordinator since 2009 and has continuously worked with an AmeriCorps member since 2010. Both the Coordinator and AmeriCorps volunteer report to the FWC Board of Directors. Historically the FWC Board has included nine Officers and Directors. Past Presidents of the FWC Board who have volunteered countless hours to the success of the organization have included Jim Cameron, Bruce Bushey, and John Barrows. They all deserve our gratitude, and we thank them for their service.

The FWC has performed countless projects in the watershed in the last ten years. The projects ranged from shoreline improvements, to culvert replacements, to rock lining streams and brooks, to septic socials, and septic outreach, tree plantings, to fund raising, and community events. The FWC also sponsors an extensive tributary water sampling initiative as well as a Boat Greeter program at the north end boat launch.

In 2010 the FWC received the Governors Award for Environmental Excellence and Pollution Prevention. The FWC officers at the time personally received the award from then Governor Jim Douglas at a ceremony in Montpelier.

The tax exempt status of the organization makes it eligible to compete for monetary grants. The grants provide the funding for projects in the watershed. Grants and private donations are the only sources of income for the FWC.

Over the past two years, the FWC has been an active member of the Lake Carmi TMDL Implementation Team. The team works closely with VT DEC and other partners to implement projects that will reduce phosphorus loads to the lake. Roads that are hydrologically connected to Lake Carmi will be a priority of the team during 2018. The Lake Carmi TMDL Implementation Team was the first of its kind in the state.

In 2017 the FWC embarked on a mapping project to identify all activity in the watershed. Mapping the watershed will serve as a valuable tool in identifying areas where erosion prevention is necessary.

Grants that provided funding for projects this summer included an inventory of camp roads; the development of plans to manage storm water runoff at the Town Garage; and the rehabilitation of culverts on Swamp Rd. All of the grant projects were completed this summer. The roads inventory and town garage grants will hopefully serve as the basis for grants to complete projects next year.

Lastly, I would like you to join me in welcoming Emily Porter Goff as our new Watershed Coordinator. Emily and I recently toured the lake and watershed, and she is eager to get started. We are excited about Emily's decision to join us, and we look forward to working with her.

That's a wrap for the time being. We will be working on several initiatives over the fall and winter so stay tuned for winter updates. I'm sure my editor will give me some space even though it is no longer on the front page. See you in the watershed!



Editors note, for more information on how you can assist in the volunteer work of the Franklin Watershed Committee, contact its president Peter Benevento at peterben@gmail.com, or call him at Lake Carmi 802.285.6744. Although he lives in Florida throughout the winter, he is available. Pete is available by cell at 774.258.0216.

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Sheriff Bob Norris Reports

The LCCA contracts with the Franklin County Sheriff's Department to patrol around Lake Carmi during the fall, winter and spring months. We had sheriff's patrol for about 76 hours during



the months of October 2016 through May 2017. Although this is not a lot, their presence does make a difference. As Bob Norris reports, their department has gotten used to the area so are more effective. The

patrols are done in 5-hour segments during this time. Many folks find a Sheriff's card in their door when they get back in the spring. They patrol, check cam site, even fix an opened door or window according to a recent conversation with a deputy who has patrolled here.

They also patrolled during the bullpout season.



Norris noted that they are a lot more successful on Dewing Shore Road since the Dewings have installed the No Fires signs. The

Franklin County Sheriff's Department also helps us during the Celebrate Lake Carmi events over the 4th of July week events, for which we are very thankful.

Live Raptor Program at Enosburgh

This program will be held at the Enosburgh Opera House on Saturday, September 16 at 1:00 p.m. It is being sponsored by the Enosburgh Conservation Commission.

The program is produced by the Vermont Institute of Natural Science and is interactive about raptor, with live hawks and falcons. This fun and educational presentation will connect the audience to the masters of the skies, furthering our understanding of these predators. We have several of these raptors and more here at Lake Carmi so this is a great time better understand them.

Planting Winter Rye, Cover Cropping

Some folks got all shaken up when this helicopter was seen over corn fields around Lake Carmi. The chopper was winter rye seeding for the prevention of soil erosion. This method has been recommended for many years to prevent both water and wind erosion. The seeds will start this fall and be back up in the spring. The tender, from Bordeau Brothers in Sheldon, was loading the contracted chopper spreader. They were at corn fields around



the lake spreading and upsetting some of the neighbors. Lake Carmi resident Linda Craig was fortunate to get a ride and many photos. We are sure it was exciting.

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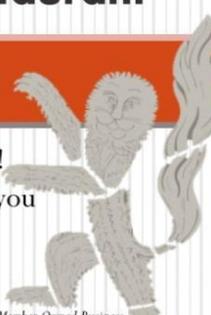
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Lakeshore Erosion Control Meeting



The Franklin Watershed Committee recently held a training session on Erosion control for friends of neighbors of the Franklin County Watershed committee. The group shown here was intently listening to presentations from UVM Extension and the Extension Sea Grant Program. It was the third in the series of three conducted at the FELCO room in the Franklin Homestead.

Haston Library Says Thank You

A recent note from two Haston trustees to LCCA was much appreciated. "Our entire community is blessed to have the Lake Carmi Camper's Association as part of a very special place to live, work, rest and read!" LCCA loves Franklin and the Haston Library too.

The LCCA is a strong supporter of the Haston mission and its impact on the community. The Board of Directors recently met with Haston Trustees to assist with their strategic planning. Having their events so much a part of the life at the lake is very important to our residents. Thank you.

Franklin's Haston Library Trustee Meeting, is open to the public, Thursday, September 14, 6:00 pm. Phone 285.6505.

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The July 3, 2018 Pontoon Boat Relay Race is in need of another team. The Green team of Dewing Shore and Camp Road is being replaced. We know there must be five boats out there to participate. You don't have to live on one of those shores. Call: Bob Lumnah, 285.6620 or 603.231.0716.

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How to Fix Lake Carmi!

.....Editorial: Larry Myott of LCCA

Not that we have the answers, but we are sure willing to hunt for those answers. Many folks are working on various ideas and yes, theories about the issues at the lake. The recent cyanobacteria blooms have created lots of controversies. This combined with the invasive weed issues, Eurasian Milfoil in particular, have made for a distressing period at Lake Carmi.

The LCCA has been working on these issues since at least 2010, in a serious manner. In 2010, the LCCA proposed weed control with the use of an herbicide. The plan would have used a licensed and EPA approved herbicide used on lakes and ponds around the world. It has been very successfully used in several Vermont lakes* and ponds as well. The Town of Franklin, led by the Selectboard, would not back our proposal to move forward. Without town support, the State of Vermont would not issue a permit or help fund it with their grants. Remember, the State of Vermont owns Lake Carmi.

On July 29, 2011, the LCCA held a public meeting at the FELCO room for an open discussion of the lakes weed problems. It was well attended, with a great amount of information being presented. Representatives of the State presented, as did campers, and scientists. The LCCA had paid for a scientific study of the Lake Carmi weed issue, and the results were presented.

In 2009 an LCCA committee was formed to study the weed issue. They worked hard and visited other lakes and ponds with similar weed problems. This article was in the August 2010 LCCA newsletter:

LCCA Inc. Ad hoc Weed Committee

"Since last summer this committee has been studying the weed problems in Lake Carmi. Much of the information gathering has been through meeting and talking with the experts and folks from other lakes with similar issues. July 14 [2011] the committee traveled to Lake Morey to meet with the Lake Morey meet weed

expert and chair of their committee, Don Weaver. Before the 2.5 hour meeting, the committee toured the lake, seeing crystal clear water with no milfoil or algae. Ten years ago [prior] Lake Morey was nearly unusable due to these problems, which included high levels of phosphorus. They tackled the phosphorus problem first, with an application of alum, [essentially] sealing the lake bottom. Treatment of the lake for weed control began in 2008, beginning their five-year plan." I should point out that Lake Morey no longer had any runoff from farm land.

Members of that first weed control committee were Larry Myott, Peter Benevento, Helen Dever, Ruth Ann Kraysky, and Hilda Hendrick-



son were photographed in 2011 at Lake Morey. The crystal clear beach is behind them with the Lake Morey Inn and Resort in the background.

Another lake we visited was Squam Lake in Holderness, NH. You can visit them online at <https://www.squamlakes.org/>. They were in a very bad condition in 1910. Our tour guide said the lake could seldom be used for recreation. There was a lot of pollution, primarily from extensive lumbering and agriculture in the area. When we visited Squam Lake (a famous lake, being the star of *On Golden Pond*) you could see the bottom anywhere, it was then and is pristine. We had joined a group of tourists for a narrated boat cruise, explaining all the efforts to obtain the success they now enjoy. That experience proved to us we could succeed in fixing Lake Carmi. Take a foliage tour to Squam Lake this month, take the boat tour, visit their lake museum and nature center. See what success is all about.

Last year, in September of 2016, I traveled to Lake Eau Claire, WI to meet with their Lake Association staff scientist and others. This lake was suffering, as Lake Carmi is today, however, it is turning around. Blue Green Algae and weeds were in the process of destroying this lake too. Jared Willey and David Mead of Advanced Onsite Services, and I met with their lake association folks for many hours of conversation, lake tours, and on site examination. The Lake Eau Claire Association has installed a fine bubble aeration system in the lake, which constantly (gently) mixes the entire volume of the lake keeping it oxygenated. This

system is proven to control cyanobacteria by cooling the top water and keeping it moving. It also prevents the layering (stratification) of water which leads to the late summer release of phosphorus from lake sediments.

Here is an abbreviated science lesson Mr. Willey provided to help us understand stratification and how it effects our water quality.

Water Temperature and Stratification fluctuate from season to season based mainly on ambient air temperatures and precipitation. Water is most dense at 39 degrees fahrenheit. As the lake heats up or cools down, layers of water are created based on density. This is known as thermal stratification. Lake Carmi experiences a brief time in both the spring and the fall that the temperatures within the lake are "equal" at about 39 degrees which trigger an event called "turnover." With these two turnovers, the lake completely mixes and then begins the slow process of re-stratifying. This happens in the spring sometime after ice out. In the fall it usually happens in late November or December depending on the year.

Why is understanding stratification important? Stratification and the resulting season turnover is a natural process that has both positive and negative impacts on the overall health of the lake. All living organisms in the water adapt to the constantly changing conditions this natural phenomenon provides.

In a fishery, Walleye, the beginning phase of stratification preserves a cold water habitat that remains viable through mid to later summer. Also in the case of the Walleye, the later stages result in a total depletion of dissolved oxygen in the cold water zone excluding them from their favored habitat.

For cyanobacteria, stratification provides prime conditions during the summer months including high temperatures in the surface water layer (epilimnion) where sunlight is most abundant as well as a nutrient release during the late summer months.

A properly sized aeration system prevents stratification by providing a constant turnover, (ideally one complete circulation of the lake volume every 5-10 days). It results in uniform temperatures throughout the lake depth but not enough to negatively impact the walleye fishery. There is strong evidence that fisheries improve when the bottom of the lake stays aerobic.

A program of radio tagging Walleye has been implemented by a local high school near Lake



Eau Claire. Visit their site, ecwalleye.org. Would a system like the one installed at Lake Eau

Claire work for Carmi? There are no indications to the contrary, but it needs to be a solution that has the approval of all the stake holders involved. It is worth noting that the State is principally reluctant to spend money on "in-lake" solutions to our algae bloom problem till the TMDL has been met.

Mr. Willey proposed a system with engineering provided by Air Diffusion Systems of Gurnee, IL, a company that specializes in lake rejuvenation, (and interestingly has provided aeration equipment to wastewater treatment lagoons in Vermont for over 40 years). The design for Carmi is nearly identical to the one in use at Lake Eau Claire. I have continued to seek support for an aeration system in Lake Carmi. If you would like more information, you can contact Mr. Willey directly, jaredw@aoservices.biz.

Here at Lake Carmi, It will not be easy and certainly not a short-term solution. Success can be achieved with cooperation from the Town of Franklin, the State of Vermont, Federal Agencies, adjacent land owners, and volunteers.

Lake Carmi Community Foundation, Inc.

Another entity has come into the picture recently. The Lake Carmi Community Foundation, Inc. has been formed; a 501(c)(3) non-profit corporation is now in place. It will allow us to obtain grants from charities that can help fund needed projects. Interested parties will be able to contribute tax-deductible contributions to the Foundation, helping fund the work to be done.

The foundation is now legally in place, and treasurer Polly Gadbois can accept those tax deductible contributions. In fact, you can even donate, and the LCCA will match it from their Century Fund that was formed back in the 1970's. This Fund was founded to enhance water quality in Lake Carmi, with dozens of campers who donated \$100 each. Very little of it was ever used.

The Foundation is a separate organization and not related to the LCCA, Inc. However, of course, the founding parties of the Foundation include some of the same folks as lead the LCCA, this will change over time.

Specific questions about the ecology and life cycle of cyanobacteria should be directed to the experts at the State of Vermont Department of Environmental Conservation, Lakes and Ponds Division. <http://dec.vermont.gov/watershed/lakes-ponds>.

*Three herbicides are currently available to use in Vermont for aquatic weed control, specifically Eurasian watermilfoil: *SonarAS* for whole lake treatments, *Renovate 3* for spot treatments and *Renovate OTF* also for spot treatments. More information on weed control is on the inside back cover.



Prepared by editor Lake Myott, a director of the Lake Carmi Camper's Association and retired Associate Extension Professor at the University of Vermont.

TMDL Team Meeting September 28

The next meeting of the *Lake Carmi TMDL Implementation Team* is scheduled for Thursday, September 28, at 5:00 p.m. in the Franklin Homesteads FELCO room. The public is invited. This month the committee will hear about opportunities to enhance management of both municipal and private roads.

Bethany Remmers, assistant director of the Northwest Regional Planning Commission, will provide an update regarding the draft Municipal Roads General Permit. Partners from the Department of Environmental Conservation will bring news of funding for work on private roads; and Emily Porter-Goff, newly appointed Franklin Watershed Committee coordinator, will talk about plans for grant applications. Celebrate the season with cider and warm cider donuts from Cold Hollow Cider Mill.

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2017 Fishing Contest Closed

Labor Day was the last day of the annual fishing contest at Lake Carmi. With many more entries than recent past seasons, the LCCA board was pleased to increase the number of trophies making the youth and adult equal in both categories, adult, and youth.

Ernie and Andrea Englehardt will be taking over the contest for this next season, 2018. The contest will run from the Saturday of Memorial Day weekend through Labor Day.



This big walleye was caught by **Linda Craig** of Westcott Shore recently. This Walleye measured 27 inches and weighed 5.95 lbs to take the adult Walleye trophy. Linda and Joe Craig fish a lot, always looking to catch that big one.

Paul & Annette Krenitsky of Westcott Shore caught a 33 inch, 7.66 lbs Northern Pike to take that class.

Frank Read of Westcott Shore took the prize winner for the Smallmouth Bass category with a 19 in, 4.04 lb specimen.

The Yellow Perch winner is **Jerry Clark**, fishing off Hammond Shore Road. He caught a 13 inch, 1.22 lb fish.

The winners in this seasons youth category are as follows: **Wes Bailey** of Concord, NH, and grandson of the Englehardts on Lake Road takes the trophy for the Northern Pike category with a 29.5 inch 5.85 lb fish. **Will Bailey**, brother of the above winner and also from Concord NH wins the Walleye category with a 20.5-inch fish weighing 2.65 lbs.

Carson Steinhour, fishing from the Hemond cottage on Hammond Shore Road caught an 18.25 inch, 2.63 lb. Largemouth Bass and the class trophy. The Smallmouth Bass winner is **Hunter Choiniere** of his parents Westcott Shore cottage. He caught a 19 inch, 3.52 lb specimen.

Alexis Cyr, fishing at her grandparent's (Everett & Wendy Peyrat) cottage on Patton Shore Road takes the trophy for her 12 inches, 0.76 lb yellow perch.

The trophies will be ordered soon and delivered to the Franklin Town Clerk for display and pickup by the lucky winner. We especially want to thank Sue & Bill Mayo and their staff at the Franklin General Store for their continuous hospitality to all the fishing contest entrants over the years.

Some notes from Bob Everest, long-time chair of the contest who passed away in August: *“This leads to some historical facts which may be of interest. The Fishing Contest was started in 1953 by the budding LCCA organization and Irwin Weiss [Patton Shore resident and Rutgers University faculty member and US Olympic team staffer] of Patton Shore Road. He was the first of only three individuals who have directed the contest to date. The second director was Dick Davis for many years, and when he stepped down, he asked me to take on the responsibility. I honestly can’t tell you how long I have done the job – probably about 20 years.”*



The first annual **Cribbage Tournament**, September 9. Chair Bruce Bushey reported a successful, fun time.

The committee set it up to benefit the Hammond Shore Road Fund. First Place belonged to Robert Larose of Hammond Shore. Julie Choquette of Berkshire took second place. A 2018 date is promised.



Ask Questions, here come the answers!

In writing this issue and over 6,000 words, I had to gather a lot of information. I asked the Vermont Department of Environmental Conservation several questions about invasive weed control in our lakes and ponds. Misha Cetner of the Lakes & Ponds Division responded with valuable information; some is here for your information.

Herbicides have been used for many years in Vermont to control or inhibit invasive weed growth, helping to make our lakes clean, clear, and accessible. In recent years:

- 2014, Lake St. Catherine: spot treatment with Renovate.
- 2015, Lake St. Catherine, spot treatment with Renovate.
Lake Hortonia: whole lake treatment with Sonar
Lake Fairlee: spot lake treatment with Sonar
Lake Morey; spot lake treatment with Renovate
- 2016, Lake Beebe, whole lake with SonarAS
Lake Dunmore, spot treatment with Renovate
Fern Lake, spot treatment with Renovate
Lake St. Catherine, spot treatment with Renovate
- 2017
Lake St. Catherine, spot treatment with Renovate

Question, “What bodies of water in the past have used them, but are not currently using herbicides?”

The answer, “Most water bodies that use herbicides tend to have some level of additional herbicide use later in the future. The use of herbicide is a temporary fix to an issue, so without concurrently addressing external causes that may influence Eurasian watermilfoil growth, it’s likely that there would be some form of continued use of herbicide. Additionally, even if one were to work on addressing external causes with watershed based projects, water bodies will always have some aquatic plant growth.” [The Vermont Lake Scorecard] identifies [Carmi] as a eutrophic system. Since it is eutrophic, and even if it were mesotrophic, there would still be a high likelihood of there being dense plant growth, whether it be Eurasian watermilfoil or a native aquatic plant species. For these types of scenarios, it can be difficult landing on an appropriate plant management strategy.”

“In terms of issuing a permit for Aquatic Nuisance Control activities, clearly defining the issue and

developing the project purpose with defined goals, objectives, and expectations helps to focus the scope of the project to improve specific public good uses that may currently be impacted, such as boating or swimming. Currently, mechanical harvesting is the control activity on Carmi. Mechanical harvesting is a common control method for eutrophic/very dense plant growth water bodies; that control strategy typically allows for the creation of navigation lanes to areas of deeper water where plant growth is limited. Many water bodies listed as having used an herbicide often pair non-chemical control with chemical control as a means to tailor strategies to a water body.”

Cyanobacteria, September 6, North Beach



Volunteers have been sampling our waters all summer, In several locations in and around the lake. Working

with the Lake Champlain Committee and the Vermont Department of Health they are keeping



track of the cyanobacteria blooms. Below are photos by Nancy Mongeur of Vic’s Crossing, taken on Sept. 7.



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