



Lamoille County Conservation District

Conserving Our Natural Resources since 1945

DISTRICT NEWS

SPRING 2023 ~ TREE AND TROUT EDITION

Note From The Director

The Lamoille County Conservation District is Growing!

This past fiscal year, starting on July 1st, 2022, we saw increased funding from the state thanks to the efforts of our umbrella agency the Vermont Association of Conservation Districts (VACD), my compatriots in the other 13 Natural Resources Conservation Districts (NRCs) across the state, and our loyal public who spoke up for us whenever possible. All districts received additional core funding from the state and this next year promises more of the same. Our state legislators received the word and responded!

The word on the street was that the NRCs are one of the most important agencies to provide the public with conservation remediation practices. If you have seen a clean water practice being installed, whether it was stormwater mitigation, wetland restoration, tree planting, lakeshore best management practices, agricultural best management practices such as not-till drill practices or cover cropping, the NRCs more than likely had a hand in this. It became apparent that the small staff that makes up each district required adequate funding to keep up the good work.



New Pavilion To Be Built!



Through an anonymous donation and more core funding through the state LCCD will be able to improve our infrastructure at the Lamoille County Nature Center (LCNC). One major improvement will be the installation of a pavilion. The pavilion will provide shelter for the camps and also provide a staging ground for more public meetings and workshops. This particular model will have a backstop and screen for the viewing presentations as well.

In addition to the pavilion, signage, in general will be improved and curriculum materials for camps are being upgraded. The LCNC is a hidden gem in the green mountains of Vermont and due to the efforts of our Education Program Coordinator Emily Porter-Goff it is becoming more widely recognized as a highly sought after destination. Stay tuned for more field trip and workshop opportunities moving forward!

Lamoille County Conservation District Mission:

To maintain and improve our natural resources.

To aid and educate our fellow citizens to appreciate and adjust to the changes taking place in our natural resource system.

To be a local voice for conservation, preservation and stewardship of all natural resources and work in conjunction with other agencies, private and public.

LAMOILLE COUNTY CONSERVATION DISTRICT

2023 PROJECT UPDATES

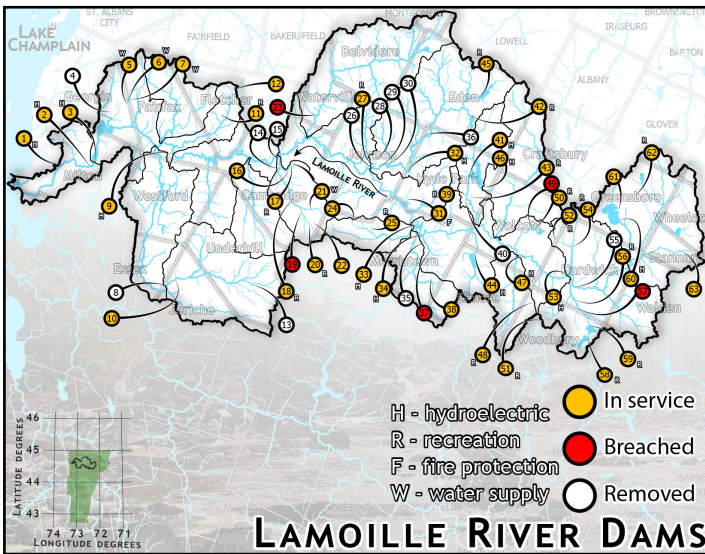
Dam Removal

LCCD has been partnering with the Vermont Natural Resources Council (VNRC) and many other organizations to identify priority dams for removal in Vermont as part of the Vermont Dam Task Force. You may be asking yourself why would anyone want to remove a dam? Throughout Vermont there are over 800 known dams. These include earthen dams, stone dams and concrete dams of various sizes and in various stages of disrepair. In 2018 H.554, a bill addressing dam safety and drinking water protection was passed that requires the DEC to maintain an inventory of all dams and inspect them to determine if they pose significant risk to the public. Dams that pose a risk to the public is the obvious answer for dam removal but the reasons that LCCD and its partnering agencies are multivariate in scope.



Dams, by their very nature, degrade water quality and habitats and create a significant block to fish and other aquatic organism passage.

They disrupt natural sediment flow, alters streamflow cycles and lowers the availability of dissolved oxygen. Of course they create a great danger of flooding if they are breached or at risk of failure. The other aspect of dams is the exorbitant cost by the landowner to maintain, not to mention the liability of dam failure.



The removal of dams can be a contentious issue depending on where they are and if they are still considered useful. LCCD is helping with the dam inventory in Lamoille County and looking for opportunities for removal where there landowner and public approval. Numerous dams and/or barriers have been sited on the Brewster River and approval has been given by both Smuggler's Notch and village of Jeffersonville to proceed with dam removal design. It is our hope that this becomes a trend and the cost benefit analysis of owning a dam becomes more of a regular thought process by landowners.

If you are a landowner with a dam and are considering removal of this structure please reach out to LCCD at lccddirector@gmail.com or [read more here](#) to see info provided by the VNRC.

Strategic Wood Addition

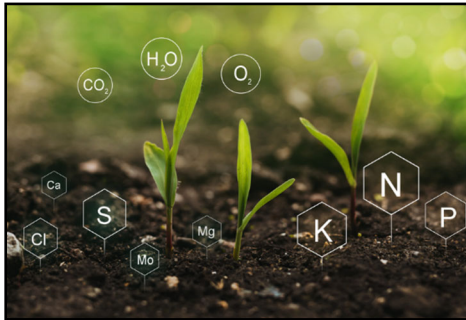
Strategic Wood Addition (SWA) is a novel approach of purposely felling trees or adding wood into streams to help enhance water quality and create aquatic organism habitat. Not all barriers are bad for streams, particularly ones that are partial and create dynamic movement in streamflow. Organic debris collection streams is a normal and natural process that helps stabilize streams through the even distribution of sediments over time. This prevents stream from being a conveyor belt of sediments, pollutants and nutrients like phosphorus to watershed end destinations like Lake Champlain. SWA also creates eddies, pools, shelter and shade that are great for Eastern Brook Trout, turtles and other aquatic organisms.

LCCD hopes to take part in future projects that involves SWA. [Learn more here](#)

Agricultural Updates

Workshops

Beginning this spring we will be offering a no-till workshop series. This will entail gathering community members and producers to partake in learning about no-till practices through a series of both demonstrations and informational sessions. We will have a no-till for demonstrations and to show calibration of the tool. In addition to a no-till workshop, the LCCD is working towards developing a series for manure injection. Be on the lookout for notices in July.



Nutrient management classes

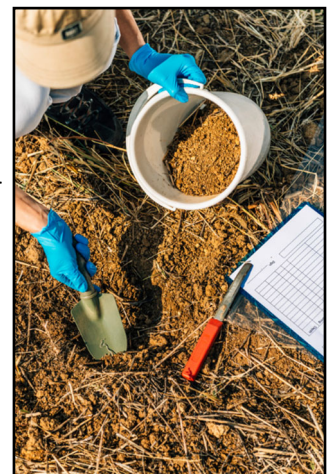
This past winter we helped farmers complete the nutrient management class. Over the course of 6 weeks farmers learned about cover crops, manure application processes, and different fertilizer options. This course provides farmers with an idea of how and when to apply fertilizer, plant cover crops, and how well their current system is working. After completion of the course farmers have a completed nutrient management plan along with accurate farm maps.

Conservation Stewardship Program

The largest conservation program in the United States, CSP is a federal program that helps land managers enhance natural resources and improve their farming operations. CSP requires producers to meet certain environmental objectives and commit to 5 years of enhanced conservation on their land. In return, producers receive an annual conservation payment. With the Conservation Stewardship program the LCCD will soon be reaching out to landowners who want to incorporate new and innovative methods of ecosystem services. This program will provide monetary compensation for projects such as riparian buffer planting, habitat conservations, etc.

Soil Sampling.

This spring and summer LCCD will undertake soil sampling for producers who need updated soil tests as well as those farms that need to know more general information in regards to their soil. The LCCD is happy to provide the sampler and up to 10 samples free of charge. This helps producers understand composition of their soil and further how to apply fertilizer once the soil sample results are presented. If you need soil sampling done in the fall contact Emma Sandman, emma.sandman32@gmail.com.



Tactical Basin Plan

LCCD is working to address the recommendations set forth by the Lamoille County Tactical Basin plan. The Tactical Basin Plan has assessed the agricultural needs of the surrounding watershed and has made recommendations based off of those results. Some of the goals have been to increase outreach and farmer participation that results in more landowner willingness, increase rates of repayment for services, building strong partnerships and increasing trust within the farming community, and increasing no-till in areas with continuous corn and annual flooding. Overall the Tactical Basin plan aims to protect and restore Vermont's surface waters.

THANK YOU TO OUR MEMBERS WHO HELPED LCCD TO WORK WITH 618 LAMOILLE RESIDENTS!!!

Gratitude and Appreciation to LCCD's Generous Members:

Conservationist: Debbie & David Schoop; Judy Geer and Dick Dreissigacker

Sponsor: Elizabeth & Nicholas Deane; Janet Lanphear in memory of Pete Lanphear; Susan & Bob Titterton

Supporters: Erin M Carroll & Richard J Fitzhenry; Bebe & Fred Dudley; Howard Manosh; Butternut Mountain Farm; Susan Ludington in memory of Chris Ludington, John & Faith Parker; Ron & Judy Stancliff; Edward & Mary Ann Wilson

PROGRAM PARTICIPATION	2023
Education Programs	1090
Volunteers	62
Trainings	7
Sales Customers	43
Farms	33
Conservation Programs	18
TOTAL PARTICIPANTS	1,253

**Thank You to our Current Members! We appreciate your help!!!
If you're not listed on this page and are receiving this newsletter,
please renew your membership.**

Please let us know if your name is missing from the list.

Gary & Nancy Banks; Martha Battle; Sunjay & Sonya Berdia; Jane Brittain; Butternut Mountain Farm; Thomas & Tatjana Cady; Erin M Carroll & Richard J Fitzhenry; Anne & Mike Cassidy; Dennis & Deborah Chevalier; John & Judy Clark; Nick Crandall; Charlie Davis; Daniel L Dauth; Elizabeth & Nicholas Deane; Jonas Dorcas; Judy Geer and Dick Dreissigacker; Bebe & Fred Dudley; Erik Fiske; Laura Fried; Barbara Gameroff; Judy Geer; Cara & Steve Hancy; Kathleen & Andrew Knittle; Lindsay E. Ingalls; Liz & Tom Lackey; Arthur & Jane M Litke; Pixie Loomis; Joni Lamphear & Michael Paritz; Janet Lanphear in memory of Pete Lanphear; Elizabeth T. & Adam C Lebow; Susan Ludington; Howard Manosh; Kate & Michael McCarthy; Linda Martin; Penny Miller; Emily Hall Neilsen & Chad Beisswanger; Ricjard Norman; Eric Nuse; Peter & Shirley Opstrup; John & Faith Parker; William & Donna Putnam; Sheila Rysz; William & Stacey Schaaf; David & Debbie Schoop; Janet and MJ Shaw; Bruce Shields; CJ & Gail Seitz; Sandy & Don Simonds; Fran Sladyk; Michael Snyder & Kristen Sharpless; Janet & MJ Shaw; Kermit & Hazel Spaulding; Ron and Judy Stancliff; S. David & Jenny Stoner; Steacy Suddaby; Alan Thompson; Ann Thursby; Susan and Bob Titterton; Robert & Jane Whitley; Edward & Mary Ann Wilson; Cynthia Yerrick

Lamoille County NRCD Supervisors

Charles Davis, Chair
Fran Sladyk, Vice Chair
Linda Martin
Sarah Ford, Treasurer
Jo-Anne Ring, Associate
Silene DeCiucos, Associate

Go to our "Put A Tree On It!" T-shirt sale at
[Sales | Lamoille Conservation District \(lenrcd.com\)](http://Sales|Lamoille Conservation District (lenrcd.com))

Lamoille County NRCD Staff

Peter Danforth, Director
lccddirector@gmail.com
(802) 521-3004

Emily Porter-Goff, Education Program Coordinator
emilylccdedu@gmail.com
(802) 521-3007

Emma Sandman, Agricultural Outreach Specialist
Emma.sandman32@gmail.com
(802) 521-3008

USDA NRCS

Nancy Allen, Soil Conservationist ext. 3005

USDA FSA

Heather Mateja, CED ext. 3002



LAMOILLE COUNTY CONSERVATION DISTRICT

Education Updates

Lake Champlain Basin Program funds STREAMWISE

Beginning this fall, we are proud to offer FREE property evaluations for any property supporting a stream. These Streamwise evaluations will examine your property for where it may be supporting the ecosystem and simple changes you could make to minimize your footprint on the ecosystem. Properties exceeding standards will receive statewide recognition as exemplary “streamwise” properties. Email Emily if you are interested in a free evaluation for your property.



Lake Champlain Basin Program Funds “A River Runs Through Us Library Hop” Join us on this 7 session library hop across Lamoille County. At each library we will learn a different aspect of river science, why rivers are the heart to so many communities across Vermont, how they help us as a society and what we can do to help protect them. These programs will be free and open to all ages, hands on, interactive and interdisciplinary. Programs are slated to run on weekends of early 2024. Follow us on Facebook or keep at eye at your local library for date announcements.

Junior Naturalist Program Thrives

The program is being held at 7 locations across Lamoille County Elementary Schools and Public Libraries, hosting 1080 attendees (year to date) at 79 programs. We have learned about everything from snakes to foxes. Providing school children with nature experiences is not only important for community building and critical thinking but it has also been shown to reduce stress and anxiety, reduce ADHD and improve physical well being. Thus far, our program has mostly attracted kindergarten and preschool classes. However, the benefits are valuable to all grades. We aim to expand this program to reach older children in future years. Teachers! Please contact us to bring your classroom into nature!



Spring Session of Mud City Forest School Underway

Back by popular demand, we continue to offer our Forest School Sessions. Homeschoolers and kids who value alternative learning experiences spend one day a week romping through the Nature Center forest with us. Each day we work on our cumulative projects, write and read short stories and poetry, do hands on science units and create amazing art. The program is entirely outdoors and provides an unforgettable and well rounded educational experience. Enrollment for the fall session will be available on our website over the next few months. Where would the kids in your life learn best?



2023 Summer Forest Camps are Nearly full!

This summer we will be offering 6 weeks of outdoor nature learning and play for kids 5+ at our Morrisville Nature Center. With themes ranging from Gnomes to Art and make your own board game! There are still a few spaces remaining in Teen/ Tween Wild Art as well as Board Game Camp, but they are going fast! We look forward to another fun summer in the woods with these amazing Lamoille kids!

Willow Longo Returns for a Second Season

We are delighted to have Willow Longo return to Mud City Forest School and summer Forest Camps this season. Willow co-leads as well as co-plans curriculum for camps and forest school with Emily Porter-Goff. Willow brings a MA in Literature from Middlebury College and is a Vermont licensed teacher and published author. This dynamic duo of Emily and Willow bring the arts and science at their best to the nature loving kids in your life.

Emily Porter-Goff, PhD– Education and Outreach coordinator– emilylccdedu@gmail.com

LAMOILLE COUNTY CONSERVATION DISTRICT

2023 CONSERVATION TREE SALE ORDER FORM

Date: _____ Name: _____

Phone: _____ Address: _____ e-mail: _____

Bare Root Trees & Flowering Shrub Species

Pick Up at LCCD Office Parking Lot April 29th, 2023

			Tubes or Containers	
White Pine (<i>Pinus strobus</i>)	2-3'	\$8		
Bur Oak (<i>Quercus macrocarpa</i>)	2-3'		\$15, 1.5 Gallon	
Red Maple (<i>Acer rubrum</i>) (<i>Field Grown Liners</i>)	2-3'	\$10		
Red Oak (<i>Quercus rubra</i>)	2-3'		\$15, 1.5 Gallon	
Black Willow (<i>Salix nigra</i>)	1-2'	\$8		
Black cherry (<i>Prunus serotina</i>)	2-3'	\$8		
Elderberry (<i>Sambucus canadensis</i>)	2-3'	\$10	\$30	
Quaking Aspen (<i>Populus tremuloides</i>)	2-3'	\$15		
Shrub willow (<i>Salix spp.</i>)	2-3'	\$8	\$30	
Silky dogwood (<i>Cornus amomum</i>)	2-3'	\$10	\$30	
Nanyberry (<i>Viburnum lentago</i>)	2-3'	\$8	\$30	
Tamarack (<i>Larix laricina</i>)	2-3'	\$8		
Winterberry (<i>Ilex verticillate</i>)	2-3'		\$10 tubes	
Paper Birch (<i>Betula nigra</i>)	2-3'	\$10	\$30	
Highbush Cranberry (<i>Viburnum trilobum</i>)	2-3'		\$15, 1 gallon	
Red Osier Dogwood (<i>Cornus sericea</i>)	2-3'	\$10		
Silver maple (<i>Acer saccharinum</i>)	2'3'	\$8		
Box Elders (<i>Acer negundo</i>)	2-3'	\$8		
Witch Hazel (<i>Hamamelis virginiana</i>)	2-3'	\$8		
Choke Cherries (<i>Prunus virginiana</i>)	2-3'	\$8	\$30	

Please attach a list of other varieties you would like to see! We will attempt to accommodate. Price will remain \$10 dependent on species but size may vary. Total from attached sheet:

A minimum of \$25 is required to cover administrative costs **PLANT SUBTOTAL**

Order deadline is April 21st.

Member Benefits
 First choice orders will be taken from members *only*, until April 1st
 Members receive 5% off entire order

Discount:

Make me a Member/Renew Membership

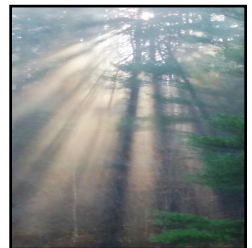
\$35 Individual \$60 Family \$125 Supporter \$250 Sponsor \$500 Steward \$1000 Conservationist

Member:

Pre-payment is required. Please make checks out to LCCD
Send to: LCCD 109 Professional Drive, Suite 2 Morrisville, Vermont 05661

TOTAL:

No news is good news! You will not receive a confirmation for your order or a reminder.
 We will contact you only if we cannot process your order.
 Retain a copy of your order form and **PLEASE mark your calendars.**
 Phone calls are not accepted on the day of the sale.



PLEASE be sure to make alternative arrangements if needed with LCCD before Saturday.
All orders must be picked up on Saturday, April 29th between 10:00 am and 12:00 pm at office parking lot. Orders are non-refundable.

TROUT SALES 2023

Common Questions and Answers:

Will trout live in my pond? Which trout species is better for my pond?

Trout survive best in cold oxygenated water maintaining a water temperature of 65°. As long as there are springs or a source of water flowing into the pond, small ponds to large ponds will accommodate both species of trout. If waters are not consistently flowing into the pond, then the pond should be at least 8' in depth and shaded to maintain temperatures in summer and winter. Ponds that have well-oxygenated flowing waters support Brook trout best. If water warms in the summer, Rainbow trout have a higher success rate.

How many trout and how often should I stock in my pond? Should I feed the trout?

The number and size of fish depend on the water flow, chemistry, and available food source. The general rule of thumb is 100 8" trout per 1/4 acre of open surface area. If the waters are spring fed, and the temperatures are consistent then stocking once every few years may work. If there are predators such as heron, mink, or fishers present than you may want to stock annually. Large trout will feed on smaller trout that are half their size. Ponds that are older than three years should have enough aquatic insect larvae, worms, tadpoles, etc. for trout to eat. Newer ponds that lack substrate such as a vegetative buffer around the pond, and submerged and benthic plants may not support these natural foods. Feeding fish may cause an increase in nutrients to the pond which can then lead to algae.

What can I do about algae in my pond?

LCCD provides site visits for pond owners to assess pond conditions and make recommendations. Site visits are scheduled in June.

Spring Trout Sale Details

Please fill out the Order Form below and send it and payment to LCCD by April 28th, 2023. For more information about stocking trout, please visit our website www.lcnrcd.com. Sorry, we cannot take payments over the phone.

Make checks out to LCCD, 109 Professional Drive, Suite 2, Morrisville, VT 05661

Orders of 6-8" trout must be picked up on **May 3rd** between **12:00 and 1:00 pm** at **Oxbow Park** (at the end of Portland Street past Morrisville Lumber). After 1:00 pm, we will forfeit unclaimed orders and will not keep the trout. Trout are provided in an air sealed large plastic bag. It's best to stock trout immediately in your pond after pick up to insure their survival.

Orders of 10-12" trout will be delivered by the trout farm **any time** on the afternoons of **May 3rd or May 4th**. Price per lot includes delivery. We cannot schedule deliveries. A flag at the delivery site and/or an order confirmation will be left onsite. Please e-mail or include directions to the best location to leave confirmation and specific directions from the nearest route to your pond with your order form and payment. Addresses will be mapped via Google and GPS with other deliveries. Split deliveries within one-mile include a \$30 additional charge.

Order confirmation calls or reminders are not provided. Please retain this information sheet for your records.

Please be sure to note the trout day on your calendars for deliveries and/or pick up orders.

2023 Spring Trout Order Form

Please check your member status on page 4 to receive member rates

PICK UP

6-8" Rainbow trout (Lots of 25) # lots _____ x \$80 (\$65 for members) = _____
6-8" Brook trout (Lots of 25) # lots _____ x \$70 (\$65 for members) = _____

DELIVERY

10-12" Rainbow trout (Lots of 50) # lots _____ x \$240 (\$220 for members) = _____
10-12" Brook trout (Lots of 50) # lots _____ x \$240 (\$220 for members) = _____

Make me a Member/Renew Membership

\$35 Individual \$60 Family \$125 Supporter \$250 Sponsor \$500 Steward \$1000 Conservationist = _____

TOTAL = _____

Name _____

E-Mail _____

Mailing Address _____

Phone _____

Physical Address (for deliveries) _____

Please include special directions from a main route on a separate sheet if necessary. **THANKS FOR YOUR ORDER!!!**

MUD CITY

Conservation Learning

Hands on student learning with a sense of purpose and place



Jr Naturalist

We travel to your school monthly to deliver a 1 hour active outdoor nature program, on a class by class basis. Studently will learn about the animals, plants and ecology around their home and school.



Field Trips

Our 40 Acre Nature Center is Morrisville boasts a pond, vernal pools, wetlands, hiking trails, forests, meadows and orchards. Immerse your students in a nature experience.



Custom Curriculum

Have something else in mind? We will create a custom curriculum to accommodate your program, for you to teach or us.

MORE INFO

Emily Porter-Goff, PhD
Education and Water Quality Specialist
emilylccdedu@gmail.com
www.LCNRCD.com



Lamoille County Conservation District

CALL FOR VOLUNTEERS

EMAIL PETER AT
LCCDDIRECTOR@GMAIL.COM FOR DETAILS



Lamoille County Conservation District

109 Professional Drive, Suite 2
Morrisville, Vermont 05661
802-521-3004
www.lcnrcd.com

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Return Service Requested



Spring 2023 Newsletter



Winters Chiropractic
65 Portland St., Morrisville, VT 05661



51 Brigham Street, Morrisville
802-888-8823



FOOTE BROOK
ORGANIC FARM

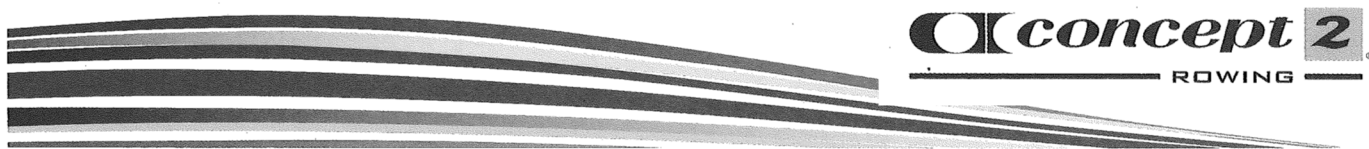
641 VT RT 15 West Johnson, VT 05656
(802) 635-1775

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Lamoille County NRC
and other contributors to
healthy communities.

Union Bank

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LCCD SPRING 2023
NEWSLETTER