



Lamoille County Conservation District

Conserving Our Natural Resources since 1945

DISTRICT NEWS

SPRING 2019 ~ TREE AND TROUT EDITION

Lamoille County Nature Center Fundraiser Field Day, August 3rd, 2019!



Join us at the newly upgraded Lamoille County Nature Center (LCNC) on August 3rd! Workshops, trail tours and other events will be occurring. Funds raised from this event will go towards more LCNC resource development and its education programs.

Thanks to a grant from the Vermont Department of Buildings and General Services providing funds for our tiny house in 2017, Lamoille County Conservation District (LCCD) was able to apply matching funds to build a new boardwalk on the front entrance path and new signage for LCNC's forest trail. More investments will be made to finish off this match by April of 2019. We would like to thank the supervisor and inmate workers from the Vermont Offenders Work Program (VOWP) for building the boardwalk and Great Big Graphics for providing the signage.

A full schedule of programs and events for his day will be advertised later this spring so stay tuned!

Meet Our New Agricultural Outreach Coordinator , Silene DeCiucies!

Silene DeCiucies grew up in Elmore and has wanted to be a soil scientist since she saw her first soil pit at the age of 15. She has a Bachelor's in geology and Master's in soil and crop science, and has worked on livestock, dairy, and vegetable farms in Vermont and upstate New York. She is very excited to work with Lamoille County farmers and learn from them how to best serve the local farming community. When not at work, Silene enjoys skiing and running in the woods, making pottery, and home cheese making.



LCCD is looking forward to expanding its agricultural outreach to Lamoille County and Silene will be at the forefront of this expansion. Our goal is to make it easier to connect with local farms and provide them with information that will help them effectively implement Best Management Practices (BMPs) to decrease nutrient and sediment runoff in the Lamoille River Watershed. The ultimate goal is to establish a farmers coalition so that farm viability strategies, best management practices, and innovative farming techniques in general can be more easily disseminated throughout the region.

LCCD and Silene will also assist small farm operators in Lamoille County in their efforts to comply with Vermont's Required Agricultural Practices (RAPs) through the development of Nutrient Management Plans. LCCD provided labor and technical assistance as farmers work through UVM's "Digging In" class. Are you a Certified Small Farm Operator in need of a Nutrient Management Plan (NMP)? The Regional Conservation Partnership Program (RCPP) covers the cost of soil and manure testing as well as the class fee and a subscription to goCrop, the software you will use to manage your soil health and nutrient needs.

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

2019 PROJECT UPDATES

Smugglers Notch Brewster River Floodplain/ Stream Restoration Project

LCCD received NRCC-DEC block grant funds to complete 10 projects on the upper reaches of the Brewster River that mitigate flooding and sediment flow into the Lamoille River watershed. The majority of the project has been completed with some final touch work to occur in the spring of 2019. Concurrently, LCCD is looking at plans to remove the dam at Morse originally created to enclose a snow making pond. The removal of this dam will improve normal sediment flow as well as positively effect the temperature and dissolved oxygen levels for aquatic organisms.

Lake Champlain Basin Education & Outreach Program, GSI Training for Conservation Managers

In the fall of 2018 and winter of 2019 Lamoille County Conservation District lead two training workshops for Green Stormwater Training (GSI) for Conservation Managers. In these workshops professionals from around the state networked and learned the process of planning, developing, implementing and maintaining GSI projects. GSI is an effective method of managing stormwater runoff with a focus on improving water quality, reducing nutrient pollution, trapping sediment and mitigating erosive forces. This is done through multivariate methods which decrease the overall amount of stormwater from directly entering waterways by treating it at its source and/or preventing runoff from occurring altogether. Overall the workshops were a great success and hopefully other watershed groups were inspired to continue to implement GSI projects to improve Vermont's water quality. This project was funded by an agreement awarded by the Great Lakes Fishery Commission to the New England Interstate Water Pollution Control Commission in partnership with the Lake Champlain Basin Program. NEIWPCC manages LCBP's personnel, contract, grant, and budget tasks and provides input on the program's activities through a partnership with the LCBP Steering Committee.



Pleasant Street Parking Lot Pocket Park GSI Project in Morrisville

LCCD received NRCC-DEC block grant funds for the Pleasant Street Parking Lot Pocket Park GSI Project. This will be a stormwater retrofit project that involves the conversion of underutilized impervious surface to green space and treatment. The project has great value in terms of its prominent Village location and usefulness as a public space in addition to a stormwater treatment facility. Completion of this project is projected to occur by the end of spring 2019! The face of downtown Morrisville will have a new upgrade thanks to the partnership between LCCD, Morristown and village, the Morrisville Alliance of Culture and Commerce, The Morrisville Water and Light Department, The National Realtors Association, Stonewall Hardscapes, Watershed Consulting Associates, Bradley Concrete, The Vermont Agency of Transportation, Great Blue Heron Architects, HA Manosh Corp, and Demars Properties.



Stormwater Master Plans for the Towns of Hyde Park and Morrisville

LCCD received a VT ANR Ecosystem Restoration Program Grants to continue work to address stormwater runoff in the Lamoille Watershed. This project is entering its final phase of deliverables this spring involving scoping and identifying numerous stormwater concerns in the towns of Hyde Park and Morrisville. Six projects are now in design phase and LCCD will be looking for funding these projects in 2019.



Wild Branch Flood Chute Stabilization and Floodplain Restoration

North Wolcott Road was damaged during flooding of the Wild Branch River in January of 2018. The river scoured the road embankment, destroyed overhead utility poles, and damaged other infrastructure. The Town of Wolcott, through a VTrans Emergency Repair Grant, has contracted with East Engineering for the design, permitting assistance, and construction engineering services for the permanent improvements to this section of road. The LCCD was awarded a NRCC-DEC Block Grant to provide funds for channel restoration and vegetative restoration adjacent to road work and that will be done. East Engineering will also oversee and design the work for this project.

LAMOILLE COUNTY NATURE CENTER

See our Calendar for a complete list of spring program offerings.

Winter Wildlife Outdoor Series

Thanks to support from the Green Mountain Fund of the Vermont Community Foundation, LCCD led a four-lesson outdoor education series this winter in collaboration with the Wolcott Elementary 3rd grade, Bishop Marshall School 4th grade, Waterville Elementary 4th/5th grade and Hyde Park Elementary 4th grade. The goal of this series was to help students make a connection with the wildlife and wild places in their own communities while building upon topics being introduced in their regular science curriculum such as animal adaptations and changing habitats. We spent many beautiful snowy winter days in the woods with 80 curious kids.

LOOK and Discover with Stowe Kindergarten

Throughout the 2018-19 school year, LCCD has been collaborating with the Stowe Elementary School kindergarten on their new nature immersion program called "Learning Opportunities Outdoors with Kids (LOOK) and Discover." One Friday per month, LCCD's environmental educator joins each of the three kindergarten classes in the woods for exploration, fresh air and themed activities including mouse house construction, animal tracking and snowflake catch and release. Special thanks to the Stowe Education Fund for their support.



Vermont Envirothon

High school teams from around Vermont will gather on May 22 at Vermont Technical College in Randolph for the 24th Vermont Envirothon. The theme of this year's competition is "Agriculture and the Environment: Knowledge and Technology to Feed the World." A training day for teams is planned for April 3 at Billings Farm and Marsh Billings Rockefeller National Historic Park in Woodstock. LCCD continues to serve as coordinator for the Vermont Envirothon.

Welcome Spring Nature Playgroup

For six Tuesdays April through June we will host a second year of our nature-based playgroup at LCNC. Last year's collaboration with the Lamoille Family Center's playgroups program brought 85 visitors to LCNC and we look forward to enjoying the sights, sounds and smells of spring with more children and caregivers this year. This program is possible thanks to support from the Green Mountain Fund of the Vermont Community Foundation.

Nature Center Field Trips

Early summer is a beautiful time to visit the Lamoille County Nature Center and every June we host end-of-the-year field trips for local schoolchildren. Field trips are planned in coordination with the teacher and can be adapted for age and group size. Interested in treating your class to a Nature Center field trip? Contact Stacey for more information.

Lamoille Nature Center Summer Camps

Before we know it the Nature Center will be hosting another summer of nature camps! The 2019 offerings include a half-day Forest Fairy Camp for ages 4-5 (July 8-12); Creature Tales Story Camp for ages 5-8 (July 15-19); and Carnivorous Creatures Camp for ages 8-12 (July 22-26). Interested in signing your little nature-lover up for camp? Details and registration forms can be found at www.lcnrcd.com.



**THANK YOU TO OUR MEMBERS WHO HELPED
LCCD TO WORK WITH 2,394 LOCALS !!!**

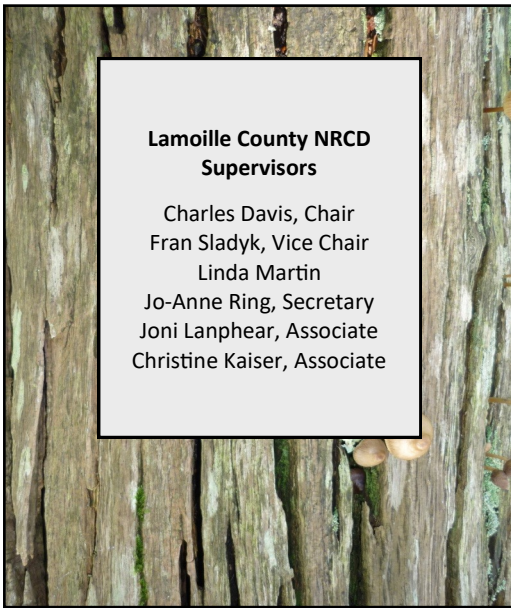
Gratitude and appreciation to LCCD's Generous Members:

Conservationist: Debbie & David Schoop
Steward: Judy Geer and Dick Dreissigacker; Concept 2, Inc.
Sponsor: Elizabeth & Nicholas Deane; Joni Lanphear; Janet Lanphear in memory of Pete Lanphear
Supporters: Susan and Bob Titterton; Jeff and Penni Rochette; Franklin and Marion Kellogg

PROGRAM PARTICIPATION	2018
Education Programs	1,641
Trainings	164
Sales Customers	42
Summer Camp	19
Vermont Envirothon	70
Conservation Programs	458
TOTAL PARTICIPANTS	2,394

**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; Geoffrey and Martha Bentley; Donald Blake Jr. Inc; Elizabeth Bourdon; William & Carol Bradley; Dave & Julie Brown; Thomas Cady; Anne & Mike Cassidy; John & Judy Clark; Jordice Corey; Thomas Cote; Nick Crandall; Steven Cummings; Charlie Davis; Elizabeth & Nicholas Deane; Barbara Gameroff; Judy Geer and Dick Dreissigacker; Penelope Harris; Richard Heh; Dick and Marcia Johannesen; Sue & Gordon Johanson; Liz & Tom Lackey; Kenneth Lamb; Janet Lanphear; Jino Lanphear; Walter Levering and Carolyn Ruschp; Steve & Carol Lichenstein; Alison Link; Trudy Louson, Susan Ludington in memory of Chris Ludington; Howard Manosh; Stacey Manosh, Roy & Marcia Marble; David & Lucy Marvin; Betty McGill; Donald & Susan Miller; Frank Mills; Ann Nichols; Kim Nichols; Sally & Peter Nolan; Richard Norman; Peter Opstrup; Michael & Louisa Pfaelzer; Deboarah Pomeroy; William & Donna Putnam; William and Mary Quigley; Jeff & Penni Rochette; Peter and Sabrina Rossi; Richard Rubin; Gail Rushford; Jim Ryan; Sheila Rysz; David & Debbie Schoop; CJ & Gale Seitz; Janet and MJ Shaw; Joel & Elizabeth Silverstein; Fran Sladyk; Michael Snuder and Kristen Sharpless; Al Sparks; Kermit & Hazel Spaulding; Ron and Judy Stancliff; Mary Sullivan; Ann Thursby; Susan and Bob Titterton; Alex Tolstoi; Charles and Pam Witherell; Union Bank; Amy & Chris Whitlock; Cynthia & Charlie Yerrick; Town of Wolcott.; Concept 2, Inc.; Veralux America, Inc.; Leo's Small Engines



We would like to give a special thanks to Peggy and Mark Struhsacker for their many years of service to LCCD! Peggy has acted as both a Board Supervisor and as District Manager for LCCD and Mark has volunteered many hours to maintain the Lamoille County Nature Center. We will miss them greatly and wish them the best of luck in their travels!

Lamoille County NRCD Staff

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 lccddirector@gmail.com
 (802) 888-9218 ext. 3004

Stacey Waterman, Education Program Coordinator
 stacey.waterman@vt.nacdnet.net
 (802) 888-9218 ext.3007

Silene DeCiucies, Agricultural Outreach Coordinator
 lccd.agoutreach@gmail.com

USDA NRCS

Nancy Allen, Soil Conservationist ext. 3005
 Philip Wilson, Soil Conservationist ext. 3006

USDA FSA

Heather Mateja, CED ext. 3002



CALENDAR SPRING/ SUMMER 2019

A P R I L

Vermont Envirothon Training Day

Wednesday, April 3
Billings Farm & Museum, Woodstock
All teams competing in the 2019 Vermont Envirothon gather for sessions with resource professionals.

Children's Program, Migration Vacation

Thursday, April 4, 10:30-11:30 am
Stowe Free Library, Stowe

Monday, April 8, 6:00-7:00 pm
Lanpher Memorial Library, Hyde Park

Thursday, April 25, 3:00-4:00 pm
Johnson Public Library, Johnson

Explore the world of critters who take a vacation from the cold Vermont winter. We'll look at the remarkable journeys of fair-weather birds and other travelers who left our hills last fall and are now preparing to return. Preschool-4th grade. FREE.

Welcome Spring Nature Playgroup

Tuesday, April 30, 9:30-11:00 am
Lamoille County Nature Center, Morristown

Children preschool and under and their caregivers meet up for playtime in the fresh air as we welcome spring together. Come prepared with your mud boots, play clothes and a snack. FREE.

M A Y

Welcome Spring Nature Playgroup

Tuesdays, May 7, 14, 28, 9:30-11:00 am
Lamoille County Nature Center, Morristown

LCCD Tree Sale Pick Up

Saturday, May 11, 10:00-12:00 pm.
USDA Service Center, Morrisville
Native tree and shrub order pick-up during this time.

Children's Program, Nocturnal Happenings

Monday, May 13, 6:00-7:00 pm.
Lanpher Memorial Library, Hyde Park

Thursday, May 23, 3:00-4:00 pm
Johnson Public Library, Johnson

As the weather warms, the night comes alive with all sorts of critters. Come find out as we explore the world of nocturnal creatures! Preschool-4th grade. FREE.

Vermont Envirothon

Wednesday, May 22, Vermont Technical College, Randolph
High school teams from across Vermont put their knowledge of forestry, wildlife, soils and aquatics to the test at the 24th annual competition.

J U N E

Welcome Spring Nature Playgroup

Tuesdays, June 4, 11, 9:30-11:00 am
Lamoille County Nature Center, Morristown

Children's Program, Summer Adaptations

Thursday, June 6, 3:00-4:00 pm
Johnson Public Library, Johnson

Monday, June 17, 6:00-7:00 pm.
Lanpher Memorial Library, Hyde Park

We'll take a look at some of the changes Vermont animals make to their bodies or their behavior in response to the warm weather. Preschool-4th grade. FREE.

Children's Program, Fun with the Sun!

Tuesday, June 20, 10:30-11:030am.
Stowe Free Library, Stowe

Join LCNC as we celebrate our favorite star by making an easy solar oven from materials you can find at home and observe the sun's power by attempting some sun-cooked goodies.

J U L Y

Forest Fairy Camp

July 8-12, 8:00-12:00. Ages 4-5.
\$120/nature center members, \$135/non-members

Creature Tales Story Camp

July 15-19, 9:00-3:00. Ages 5-8.
\$175/nature center members, \$200/non-members

Carnivorous Creatures Camp

July 22-26, 9:00-3:00. Ages 8-12.
\$175/nature center members, \$200/non-members

Lamoille County Field Days

July 26-28. All ages
Stop by our teepee to say hi, learn more about our programs and check out some cool skulls, bones and other wildlife specimens.

Children's Program, Fun with the Sun! (See June description)

Tuesday, July 30, 10:00-11:00 am.
Johnson Public Library, Johnson

A U G U S T

Children's Program, Fun with the Sun! (See June description)

Friday, August 2, 10:30-11:30 am.
Morristown Centennial Library, Morrisville

Wednesday, August 7, 10:00-11:00 am.
Jeudevine Library, Hardwick

LCCD's Tree Sale of native trees and shrubs are available from species selected for our riparian restoration efforts, this year in Wolcott. In former years we had a wide variety of tree and shrub species but many of these native species are used for other VT Conservation District restoration efforts as well and therefore, the stock is very limited. We're continuing the selection with a limited number of riparian Bare Roots trees and flowering shrubs. The larger Ball & Burlap trees seem to be a good choice for members so we're continuing this option. These trees are larger and in most cases will need a truck for transport. For more information on the species, growing conditions, and photos, check out the USDA Plants Database at plants.usda.gov

LAMOILLE COUNTY CONSERVATION DISTRICT 2019 CONSERVATION TREE SALE ORDER FORM

Date: _____ Name: _____
Phone: _____ Address: _____ e-mail: _____

Tree Species (Root Ball & Burlap)	Pick Up at LCCD Office May 11th or at scheduled time coordinated with Peter			
Balsam fir (<i>Abies balsamea</i>)	3-4'	\$18		
Northern White cedar (<i>Thuja occidentalis</i>)	3-4'	\$10		
Red maple (<i>Acer rubrum</i>)	6-8'	\$20		
Sugar maple (<i>Acer saccharum</i>)	6-8'	\$20		
White birch (<i>Betula papyrifera</i>)	6-8'	\$20		
White pine (<i>Pinus strobus</i>)	3-4'	\$18		
Bare Root Trees & Flowering Shrub Species				
Black cherry (<i>Prunus serotina</i>)	3-4'	\$8		
Elderberry (<i>Sambucus canadensis</i>)	3-4'	\$8		
Highbush cranberry (<i>Viburnum trilobum</i>)	3-4'	\$8		
Shrub willow (<i>Salix spp.</i>)	4-5'	\$8		
Silky dogwood (<i>Cornus amomum</i>)	3-4'	\$8		

Please attach a list of other varieties you would like to see! We will attempt to accommodate. Price will remain \$8 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 26th.	Member Benefits First choice orders will be taken from members <i>only</i> , until April 20st Members receive 5% off entire order	Discount:
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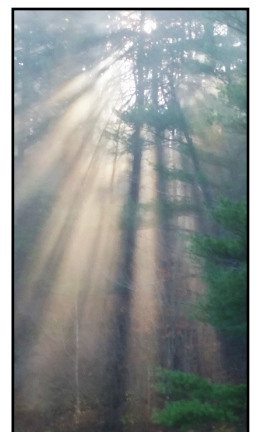
Make me a Member/Renew Membership \$35 Individual \$60 Family \$125 Supporter \$250 Sponsor \$500 Steward \$1000 Conservationist	Member:
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Pre-payment is required. Please make checks out to LCCD Send to: LCCD 109 Professional Drive, Suite 2 Morrisville, Vermont 05661	TOTAL:
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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, May 11th between 10:00 am and 12:00 pm at

Lamoille County Conservation District
USDA Service Center
109 Professional Drive Morrisville VT 05661



TROUT SALES 2019

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 May 3, 2019. 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 8th** 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 8th or May 9th**. 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.

2019 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 \$70 (\$55 for members) = _____
6-8" Brook trout (Lots of 25) # lots _____ x \$70 (\$55 for members) = _____

DELIVERY

10-12" Rainbow trout (Lots of 50) # lots _____ x \$220 (\$205 for members) = _____
10-12" Brook trout (Lots of 50) # lots _____ x \$220 (\$205 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!!!**

Lamoille County Conservation District

109 Professional Drive, Suite 2
Morrisville, Vermont 05661
802-888-9218
www.lcnrcd.com

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Spring 2019 Newsletter



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