

# Lamoille County Conservation District

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Morrisville, Vermont 05661  
802-888-9218  
www.lcnrcd.com

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Spring 2018 Newsletter



# Lamoille County Conservation District

Conserving Our Natural Resources since 1945



## LCCD Welcomes New Director Peter Danforth

In January, LCCD welcomed Peter Danforth as our new district director and he has hit the ground running. Peter managed to submit two grant proposals in his first week with the District and continues to work on current projects as he prepares for the spring when things will really get busy!



Peter has a B.A. in Environmental Studies and Comparative Religion and a M.Ed. in Agricultural Education and a minor in Geography. Peter has extensive experience in agricultural and environmental education, having managed an agricultural program for a semester school in the Bahamas and directed an alternative-to-incarceration high school which offered hands-on learning and training in the fields of agriculture, environmental science and aquaculture in New York. Most recently he was involved in the creation of oyster reefs for clean water treatment, ecosystem restoration, storm surge mitigation, algal bloom mitigation and carbon sequestration. Other than that, he is an avid skier and musician.



Peter grew up in Vermont and currently commutes from Underhill Center to our offices in Morrisville. His lifelong work and passion has been dedicated to conservation and environmental education. He looks forward to continuing this work with the District and to meeting everyone else involved in making Lamoille County the hallmark in sustainable land use practices!

## Wildlands and Waters Project

In 2017, LCCD received a net \$16,000 to build the capacity for program expansion at the Lamoille County Nature Center by expanding the trails and access, installing much-needed interpretive and wayfinding signs, and creating additional educational programs and curriculum. This summer we will begin the process of bringing new and creative elements to the Nature Center with these funds. It is our hope that these efforts will enhance the Nature Center experience for all of our visitors as well as attracting new visitors to take advantage of everything the Nature Center has to offer from wildlife viewing to children's programs to the work of citizen scientists. Stay tuned!



### 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.

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Jonathan Bosley  
Owner & Operator  
802.730.2795

**BUTTERNUT MOUNTAIN FARM**  
The VERMONT  
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LCCD SPRING 2018 NEWSLETTER

# LAMOILLE COUNTY CONSERVATION DISTRICT

## 2018 PROJECT UPDATES

### Connecting the Mid-Lamoille Culvert Project

LCCD assisted the Town of Hyde Park in receiving a new culvert to open 3.3 miles of brook trout habitat on Rodman Brook. LCCD's work began in 2012 to identify high priority structures blocking fish migration and causing flooding problems in the Lamoille Watershed. Since that time, LCCD engineered designs and matching funds to replace the undersized culvert last summer with great success! In addition to this, LCCD will install a riparian buffer zone with native trees and shrubs around the recently constructed site in May of 2018. More culvert removal projects are being considered for the town of Eden.



### Smugglers Notch Project Development Plan

LCCD received funds for Phase 1 and Phase 2 stream geomorphic assessments (SGA) to develop projects on the Brewster River for berm removal, head-cut stabilization and improving corridor conditions. LCCD will be meeting with Smugglers Notch in the spring to begin work on the projects that have been identified that would mitigate flooding and sediment flow into the Lamoille River watershed. Concurrently, LCCD will be 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

The Green Stormwater Infrastructure Training for Conservation Managers (GSI Training) is a targeted effort by LCCD to strengthen the programmatic capability of Vermont's Natural Resources Conservation District's (NRCD), watershed groups, and local planning commissions. LCCD will also work in partnership with the Lamoille County Planning Commission (LCPC) to provide education and outreach regarding GSI.

### 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 4th phase of deliverables this spring involving scoping and identifying numerous stormwater concerns in the towns of Hyde Park and Morrisville.

### Regional Conservation Partnership Program (RCPP) – Farm Nutrient Management Planning

For a second year, LCCD assisted 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 NMP? The RCPP program covers the cost of soil and manure testing as well as the class fee and a one-year subscription to goCrop.

### The Lamoille Watershed Agricultural Project

LCCD is currently refining its database of working farms in Lamoille County. The ultimate goal of this project 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 increase nutrient and sediment storage in the Lamoille River Watershed. The new director would also like to see a farmers coalition formed so that BMPs and innovative farming techniques in general can be more easily disseminated throughout the region.



# TROUT SALES 2018

### 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 4, 2018. For more information about stocking trout, please visit our website [www.lcnrcd.com](http://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 9th** 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 9th or May 10th**. 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.

### 2018 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 \$65 (\$50 for members) = \_\_\_\_\_

6-8" Brook trout (Lots of 25) # lots \_\_\_\_\_ x \$65 (\$50 for members) = \_\_\_\_\_

#### DELIVERY

10-12" Rainbow trout (Lots of 50) # lots \_\_\_\_\_ x \$215 (\$200 for members) = \_\_\_\_\_

10-12" Brook trout (Lots of 50) # lots \_\_\_\_\_ x \$215 (\$200 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!!!**

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](http://plants.usda.gov)

## LAMOILLE COUNTY CONSERVATION DISTRICT 2018 CONSERVATION TREE SALE ORDER FORM

Date: \_\_\_\_\_ Name: \_\_\_\_\_  
Phone: \_\_\_\_\_ Address: \_\_\_\_\_ e-mail: \_\_\_\_\_

Tree Species (Root Ball & Burlap)	Pick Up at LCCD Office May 12th 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	

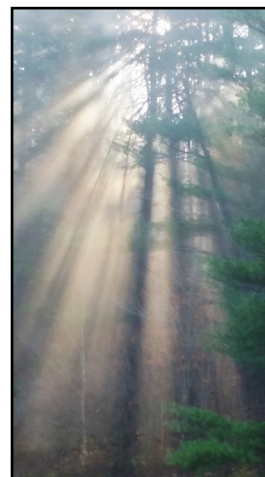
A minimum of \$25 is required to cover administrative costs **PLANT SUBTOTAL**

<b>Order deadline is April 27th.</b>	<b>Member Benefits</b> First choice orders will be taken from members <i>only</i> , until April 20st Members receive 5% off entire order	Discount:
<b>Make me a Member/Renew Membership</b> \$35 Individual <b>\$60 Family</b> \$125 Supporter <b>\$250 Sponsor</b> \$500 Steward <b>\$1000 Conservationist</b>		Member:
<b>Pre-payment is required. Please make checks out to LCCD</b> <b>Send to: LCCD 109 Professional Drive, Suite 2 Morrisville, Vermont 05661</b>		<b>TOTAL:</b>

**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 12th between 10:00 am and 12:00 pm at

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



## LAMOILLE COUNTY NATURE CENTER

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

### Lamoille Watershed Education

Last fall, LCCD embarked on a second year of watershed education at Wolcott and Cambridge Elementary Schools, giving a new batch of students the opportunity to explore their place in the Lamoille River watershed. Students were able to experience the watershed quests developed by their predecessors and took part in five lessons where they participated in mapping exercises, watershed field surveys and water quality testing. Special thanks to teachers Mosie Hill and Colleen Legris for their work and enthusiasm. This project was possible thanks to a grant from the Green Mountain Fund of the Vermont Community Foundation.



### Lamoille Nature Center Summer Camps

Once again, the arrival of summer will mean it's nature camp time at the LCNC! This year we are offering two fun-filled weeks of camp. Nature's Neighborhood, June 25-29 for campers ages 5-8, will focus on the diversity of animal homes as we build our own giant nests, toad abodes and native bee dwellings, along with crafts, games and critter-inspired story-telling. Wild & Woodsy, July 9-13 for campers ages 9-11., will be all about fun in the forest as we work on animal tracking, compass skills and campfire cuisine. Wild & Woodsy campers will stay on for our popular Thursday night campout.

### Summer 2018 Campership Fund

Would you like to help a child attend nature camp this summer? Donations to the campership fund are always welcome and will come in handy as we gear up for our camp season. If you haven't already done so, we would greatly appreciate your support!

### Vermont Envirothon

Training Day for the 23<sup>rd</sup> Vermont Envirothon will take place at Billings Farm and Museum and the Marsh Billings Rockefeller National Historic Park on April 4, 2018. High school students from across Vermont will add to their knowledge of forestry, wildlife, soils and aquatics and will hear from the experts on the 2018 current issue topic of "Public Land Management—Managing Diverse Views." Teams will put their skills to the test at the Vermont Envirothon competition on May 23<sup>rd</sup>, held this year at Mt. Norris Scout Reservation in Eden. The winning Vermont team will go on to compete at the North American Envirothon at Idaho State University in July.



### 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.



**THANK YOU TO OUR MEMBERS WHO HELPED  
LCCD TO WORK WITH 5,277 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; Union Bank

**Supporters:** Robert & Jane Whitley; Gravel Construction, Inc.; Susan and Bob Titterton; Janet Lanphear in memory of Pete Lanphear; Dennis and Deborah Chevalier

PROGRAM PARTICIPATION	2017
Education Programs	1,877
Family & Public Programs	225
Junior Naturalist Programs	876
Summer Camp	41
Vermont Envirothon	75
Conservation Programs	2,183
<b>TOTAL PARTICIPANTS</b>	<b>5,277</b>

**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.**

Theodore & Diane Alexander; Andrea Altman; Jan & Richard Bailey; Gary & Nancy Banks; Anna Barrett & Jim Rossiter; Geoffrey and Martha Bentley; Charlie & Linda Berry; Jessica & Jeff Bickford; Donald Blake Jr. Inc; LD Bliss; Elizabeth Bourdon; William & Carol Bradley; Dave & Julie Brown; Thomas Cady; Anne & Mike Cassidy; Al & Alice Cepetelli; Dennis & Deborah Chevalier; John & Judy Clark; Steven Cummings; Charlie Davis; Elizabeth & Nicholas Deane; Stephen & Mary Donohue; Bob & Nancy Durand; Betsy Field and Paul Rogers, M.D.; Jim & Jan Fontaine; Jeannine Fortin & Dale Percy; Barbara Gameroff; Richard Heh; Dave & Trina Hosmer; Sue & Gordon Johanson; Dorcas Jones; Liz & Tom Lackey; Kenneth Lamb; Janet Lanphear; Walter Levering and Carolyn Ruschp; Steve & Carol Lichenstein; Trudy Louson, Susan Ludington in memory of Chris Ludington; Roy & Marcia Marble; David & Lucy Marvin; Betty McGill; Donald & Susan Miller; Ann Nichols; Kim Nichols; Sally & Peter Nolan; Richard Norman; Eric Nuse; Peter Opstrup; Chuck Pepe; Ed Perkins; Michael & Louisa Pfaelzer; Alan Peister; Doug & Mary Philipsen; William & Donna Putnam; Karen & Lawrence Rhodes; Jeff & Penni Rochette; Sydney Rochette; Jim Ryan; Sheila Rysz; David & Debbie Schoop; CJ & Gale Seitz; Joel & Elizabeth Silverstein; Fran Sladyk; Al Sparks; Kermit & Hazel Spaulding; Ron and Judy Stancliff; Mary Sullivan; Ann Thursby; Union Bank; Christine & Douglas Varney; Robert & Jane Whitley; Amy & Chris Whitlock; Edward and Mary Ann Wilson; Cynthia & Charlie Yerrick; Town of Wolcott.; Concept 2, Inc.; Ten Bends Beer.

**Lamoille County NRCD  
Supervisors**

Charles Davis, Chair  
Fran Sladyk, Vice Chair  
Peggy Struhsacker, Treasurer  
Linda Martin  
Jo-Anne Ring, Secretary  
Joni Lanphear, Associate  
Christine Kaiser, Associate

**Lamoille County NRCD Staff**

Peter Danforth, Director  
lccddirector@gmail.com  
(802) 888-9218 ext. 3004

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

**USDA NRCS**

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

**USDA FSA**

Heather Mateja, CED ext. 3002



**CALENDAR SPRING/ SUMMER 2018**

**A P R I L**

**Vermont Envirothon Training Day**

Wednesday, April 4  
Billings Farm & Museum, Woodstock  
All teams competing in the 2018 Vermont Envirothon gather for sessions with resource professionals.

**Children's Program, Pollinator Power!**

Preschool-4<sup>th</sup> grade  
Do you know how many of the foods you eat are only available because some little creature helped pollinate them? We'll check out the many winged wonders and other animal friends that will be helping flowers transform into fruits this season. FREE.

Monday, April 13, 6:00-7:00 pm. NIGHT OWL!  
Lanpher Memorial Library, Hyde Park

**M A Y**

**LCCD Trout Sale Pick Up**

Wednesday, May 9, 12:00-1:00 pm. Oxbow Park, Morrisville  
Trout order pick-up during this time. (Order Deadline: May 4)

**LCCD Tree Sale Pick Up**

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

**Children's Program, Leaping Lepidoptera! Butterflies and Moths**

Monday, May 21, 6:00-7:00 pm. NIGHT OWL!  
Lanpher Memorial Library, Hyde Park

Delicate and beautiful, it is easy to confuse moths and butterflies. But each have their own unique behaviors and physical characteristics. In this lesson we will bring out our lepidoptera collection to learn how to tell the difference between a beautiful butterfly and a marvelous moth, play a game of life cycle, and see how it feels to be tucked up snug in a cocoon or chrysalis. Preschool-4th grade. FREE.

**Vermont Envirothon**

Wednesday, May 23, Mt. Norris Scout Reservation, Eden  
High school teams from across Vermont put their knowledge of forestry, wildlife, soils and aquatics to the test at the 23rd annual competition.

**J U N E**

**Nature Center Work Day**

Saturday, June 9, 10:00-12:00. All ages welcome  
Lamoille County Nature Center, Cole Hill Road, Morrisville  
Come to help spruce up our nature center & put up the teepee, stay for the s'mores and pine needle tea!

**Children's Program, Terrific Turtles**

Monday, June 18, 6:00-7:00 pm. NIGHT OWL!  
Lanpher Memorial Library, Hyde Park

This is the time of year when Vermont's turtles are on the move. But where are they going and why? We'll explore which turtles live here in Vermont, what they eat, where they live and what to do if you see a turtle in the road. Then we'll practice our turtle-transport techniques to be ready for our next turtle rescue encounter. Preschool-4th grade. FREE.

**J U L Y**

**Children's Program, The Soundtrack of Summer—Vermont's Most Musical Insects**

Wednesday, July 18, 10:00-11:00 am  
Jeudevine Memorial Library, Hardwick

Thursday, July 19 11:00 am-12:00 pm  
Morristown Centennial Library, Morrisville

Wednesday, July 25 10:30-11:30 am  
Stowe Free Library, Stowe

The days and nights of summer are loud with the serenade of crickets, katydids and cicadas. Join us as we take a closer look at why and how these insects sing and learn to decipher who it is we are hearing. Then learn to read air temperature by "insect thermometer," see how well our own ears perform against a wall of insect sounds and make a simple cricket carrier to take home for your next cricket hunt. Preschool-4th grade. FREE.

**LCNC Summer Camps**

Programs take place at Lamoille County Nature Center on Cole Hill Road unless otherwise noted. Camperships available. Contact us for details. Register by May 15 to get \$10 off your registration fee!

**Nature's Neighborhood**

June 25-29, 9:00-3:00. Ages 5-8.  
\$175/nature center members, \$200/non-members

**Wild & Woodsy**

July 9-13, 9:00-3:00. Campout Thursday. Ages 9-11.  
\$175/nature center members, \$200/non-members

**Lamoille County Field Days**

July 27-29. 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.

**Look for program details, the Summer Camps Brochure and registration forms at [www.lcnrcd.com](http://www.lcnrcd.com)**