Lamoille County Conservation District

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

NON-PROFIT ORG. **U.S. PAID MORRISVILLE, VT** PERMIT NO. 38

Return Service Requested



Spring 2020 Newsletter





Spring Update

This is possibly the strangest spring we have faced in years with the advent of the COVID-19 pandemic. As you might guess, this has led to many questions as to how our District's normal spring and summer activities will be affected . At this time, we still plan to have our spring tree (limited) and trout sale, and we still plan to implement conservation projects throughout Lamoille County; whether that entails best management practices for lakeshore properties, nutrient management planning for farms or green stormwater infrastructure implementation. All education programs listed for April on Pg. 5 will be postponed or cancelled if restrictions on gatherings continue through April and libraries remain closed. We recommend calling ahead before venturing out to one of our programs. All protocols as recommended by the Center for Disease Control and Prevention (CDC) and federal and state mandates will be closely followed in any field work we do.

We are going to continue our spring membership drive and fundraising activities. The considerable indirect costs associated with our work which is not covered in any grants or core funding, necessitates the need for consistent fundraising. This need is so great that we plan to hold a **Conservation Field Day and Friendraiser** on May 17th in Oxbow Park from 11am to 4pm. The event will have our conservation partners present, conservation workshops, vendors, music, and a paddle down the Lamoille to event at start of the day for those who are interested. There will also be a 50/50 raffle and silent auction. Due to the COVID-19 pandemic and the uncertainty of state and federal mandates this event may be postponed. LCCD will officially advertise the time and date of this event by April 17th. We hope to see you all there regardless of when it will be! If you have questions or concerns please contact Peter Danforth at 631-495-9093 or lccddirector@gmail.com

Agriculture Programming Updates

We had a busy winter with our "Thank our Farmers for the View" art show and the launch of the Lamoille Count Farm Grocery Guide. Thanks to all that came out to the opening and checked out the show, and thank you to all of the farmers that made the project possible. New versions of the FGG will be coming out soon with updated producer info and will be made available or could be mailed. We need to support our local economy and producers now more than ever in these difficult times. Cows will continue to be milked and crops sown so that we can all be fed!

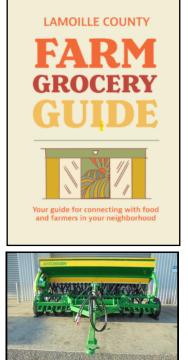
Two Lamoille County farmers went through the RCCP nutrient management program with us this winter through UVM extension and now have complete nutrient management plans to utilize this growing season. These plans help mitigate excess nutrient application, which in turn keeps our surface waters clean, and increases farm profitability and yields.

Through the state CEAP program, Lamoille County was granted funding to purchase a no-till drill this spring! We chose a 9 foot Aidchison Seedmatic, which is especially well suited for re-seeding hay fields and pastures, but can also be used for cover cropping, or planting any no-till crops such as corn, beans, and small grains. We hope that many farmers in the area will utilize the drill to reduce opsoil erosion and conserve soil carbon.

We will continue to support Lamoille County Farmers in any way we can through our various conservation programs and on-farm technical assistance. If you have any agriculture related inquiries, please contact Silene at lccd.agoutreach@gmail.com. Happy Spring!

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

2020 PROJECT UPDATES

The Lake Eden Watershed Action Plan



Through an Ecosystem Restoration Program grant provided by the Vermont Department of Environmental Conservation in 2018, the Lamoille County Conservation District (LCCD) conducted a full watershed assessment of the Lake Eden watershed. LCCD contracted Fitzgerald Environmental Associates LCC and partnered with Lamoille County Planning Commission, VT Agency of Natural Resources, VT Department of Fish and Wildlife, Boy Scouts of America, Town of Eden, Lake Eden Association, US Fish and Wildlife Service, and Vermont Youth Conservation Corp (VYCC) to complete this study.

Lake Eden is a pristine lake but has been showing nutrient (i.e. Phosphorus) and sediment loading stresses due to development patterns surrounding the lake. The study assessed what locations these stressors were most impactful by conduction road erosion inventories, stream walks and shoreline assessments. LCCD worked closely with the town and lake association to identify known issues as well. 20 possible projects were identified and 5 of these that ranked highest were brought to 30% design. LCCD intends to implement best management strategies to mitigate sediment and nutrient loading at these 5 sites over the next couple years combined with continued monitoring of water quality.

Along side of this assessment The VT Agency of Natural Resources made inroads introducing the Lake Wise program to local shoreline owners. Lake Wise is a program that helps these land owners implement shoreline Best Management Practices (BMPs) for stormwater management, storm resiliency and improved wildlife habitat. Shoreline owners who score particularly well with their land stewardship will receive a certification and a sign that they can proudly display on their shoreline for their neighbors to see. While the assessment was in progress 6 BMPs were installed around the lake with the help of the VYCC and volunteers.

Stormwater Master Plans for Morristown and Hyde Park

Through an Ecosystem Restoration Program grant provided by the Vermont Department of Environmental Conservation in 2018, the Lamoille County Conservation District (LCCD) produced a Stormwater Master Plan for the towns of Morristown and Hyde parkLCCD contracted Watershed Consulting Associates LCC and partnered with the towns of Morristown and Hyde Park, the Lamoille County Planning Commission, and the VT Agency of Natural Resources, to complete this study.

The study assessed approximately 27,000 acres to determine what locations were stressed the most by sediment, pollutant and nutrient loads (specifically Phosphorus), were potential flood hazards and had the largest impact on the Lamoille River Water Basin and its tributaries. 20 possible project sites were identified and 6 of these that ranked highest were brought to 30% design. LCCD intends to implement best management strategies to mitigate sediment and nutrient loading at these 6 sites over the next couple of years combined with continued monitoring of water quality.

Lamoille Watershed Group, Aquatic Organism Passage (AOP) Steering Committee

In 2019, the Lamoille County Conservation District gathered local watershed partners to form an AOP (Aquatic Organism Passage) Steering Committee, to explore potential culvert replacement projects that would improve aquatic organism passage along streams in Lamoille County. The Steering Committee is comprised of Lamoille Watershed representatives and technical assistance providers including the U.S. Fish and Wildlife Service, Vermont Fish and Wildlife Department, Vermont Department of Environmental Conservation, Lamoille County Conservation District, and the Lamoille County Planning Commission. The objective of this Lamoille AOP Partnership Project is to identify potential AOP culvert replacement projects that will yield benefits to aquatic communities and water quality, while aiming to align these benefits with municipal infrastructure priorities. Approximately 8-10 culverts have been identified as in need of replacement or retrofit to improve Brook Trout Habitat.





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 welloxygenated 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.

Please fill out the Order Form below and send it and payment to LCCD by May 1st, 2020. 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 6th 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 6th or May 7th. 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.

	2020 Spring Trout Order Form	Г
PIC	(UP	L
	6-8" Rainbow trout (Lots of 25)	# le
	6-8" Brook trout (Lots of 25)	# le
DEL	IVERY	
	10-12" Rainbow trout (Lots of 50)	# le
	10-12" Brook trout (Lots of 50)	# le
\$35	Individual \$60 Family \$125 Supporter \$250	Sponsor
Nam	ne	_ E-N
Mai	ling Address	_ Ph
	sical Address (for deliveries)	



Spring Trout Sale Details

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.

Please o	heck your member status on page 4 to rea	ceive member rates
lots	x \$70 (\$55 for members)	=
ots	x \$70 (\$55 for members)	=
lots	x \$220 (\$205 for members)	=
ots	x \$220 (\$205 for members)	=
\$500 St	eward \$1000 Conservationist	=
	TOTAL	=
Mail		
none		

LAMOILLE COUNTY CONSERVATION DISTRICT 2020 CONSERVATION TREE SALE ORDER FORM

Date:

Phone:

Name: ___ Address:

e-mail:

Bare Root Trees & Flowering Shrub Sp	oecies	Pick Up at LCCI	O Office May 2nd o	r at scheduled time coo	ordinated with Peter
American Elm (Ulmas Americana)	1-2'	\$6			
Black Walnut (Juglans nigra)	1-2'	\$6			
Bur Oak (Quercus macrocarpa)	3-4'	\$8			
Button Bush (Cephalanthus occidentalis)		2-3'	\$8		
Red Maple (Acer rubrum)		2-3'	\$8		
Red Oak (Quercus rubra)		2-3'	\$8		
American Basswood (Tilia Americana)		2-3'	\$8		
Black cherry (Prunus serotina)		1-2'	\$6		
Elderberry (Sambucus canadensis)		3-4'	\$8		
Quaking Aspen (Populus tremuloide	s)	3-4'	\$8		
Shrub willow (Salix spp.)		1-2'	\$6		
Silky dogwood (Cornus amomum)		4-5'	\$8		
Nanyberry (Viburnum lentago)		2-3'	\$8		
Tamarack <i>(Larix laricina)</i>		1-2'	\$6		
Winterberry (Ilex verticillate)		1-2'	\$6		
River Birch (Betula nigra)		1-2'	\$6		
Blueberry Blue Ray (Vaccinium corymbosum)		1-2'	\$6		
Cottonwood (Populus deltoides)		1-2'	\$6		
Silver maple (Acer saccharinum)		1-2'	\$6		
Box Elders (Acer negundo)		3-5'	\$8		
Choke Cherries (Prunus virginiana)		2-3'	\$8		
ase attach a list of other varieties yo nain \$8 dependent on species but siz	Total from attached sheet:				
A minimum c	of \$25 is re	quired to cover adm	inistrative costs	PLANT SUBTOTAL	
Order deadline is April 24th.	Discount:				
Jake me a Member/Renew Member \$35 Individual \$60 Family \$125 Supp	Member:				
Pre-payment Send to: LCCD 109 Pro	TOTAL:				
Retain a copy of	ntact you c f your orde	receive a confirmation only if we cannot pro- er form and PLEASE accepted on the da	ocess your order. <i>mark your calenda</i>		

PLEASE be sure to make alternative arrangements if needed with LCCD before Saturday. All orders must be picked up on Saturday, May 2nd between 10:00 am and 12:00 pm at office parking lot



Watershed Education

LCCD continues to provide watershed education throughout the Lamoille watershed, last fall with science students at Laraway School. We look forward to more watershed lessons this spring with the sixth graders at Johnson Elementary School, thanks to funding from the Green Mountain Fund of the Vermont Community Foundation.

Winter Wildlife Outdoor Series

In January and February we brought our Winter Wildlife Series to the third graders at Wolcott Elementary School. Over four visits, we explored the frozen forest for animal tracks, burrows, and entrances to the subnivean zone beneath our feet and tried to see the challenges our wildlife neighbors face during the long cold winter.

LOOK and Discover with Stowe Kindergarten

For a second year, LCCD has been collaborating with the Stowe Elementary School kindergarten on their 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 and animal tracking. Special thanks to the Stowe Education Fund for their support.



Welcome Spring Nature Playgroup

For six Wednesdays April through June we will host our nature-based playgroup at LCNC for children preschool and younger and their caregivers. 2020 will be the third year of this program, which has brought 153 visitors to the nature center to enjoy the sights, sounds and smells of spring, rain or shine!

Lake Champlain Basin Program Funds Lamoille Watershed Investigation Series

LCCD will offer a six-part lesson series focused on the Lamoille watershed and its place in the Lake Champlain Basin to four 3rd-6th grade classrooms in Fall 2020. Activities will include mapping, modeling, water quality testing and field surveys. We are looking for interested, adventurous teachers at Wolcott, Johnson, Cambridge and Waterville. This project is funded by an Education and Outreach Grant from the Lake Champlain Basin Program.

Vermont Envirothon

High school teams from around Vermont will gather on May 19 at Shelburne Farms for the 25th Vermont Envirothon. The theme of this year's competition is "Drinking Water: Issues and Solutions." A training day for teams is planned for April 1 at Billings Farm and Marsh Billings Rockefeller National Historic Park in Woodstock. LCCD continues to serve as coordinator for the Vermont Envirothon.

Nature Center Field Trips

Every May and June LCNC hosts 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.



Our nature programs for kids preschool-4th grade are held at schools and libraries throughout Lamoille County every month as they have for over two decades. Check our spring calendar for programs near you.





Forest Fairy Camp Ages 4-5 ~ June 29-July 3 ~ 8:00-12:00

Sensory Superpowers Ages 5-8 ~ July 6-10 ~ 9:00-3:00

Wild in the Wilderness Ages 8-12 ~ July 13-17 ~ 9:00-3:00; overnight Th-10am Fri

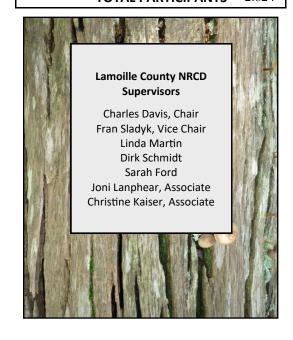
Registration forms available at www.lcnrcd.com

GAMES~CAMPFIRES~POND~EXPLORATION~HIIKES~CRAFTS

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, Butternut Mountain Farm, James S. Schoff, Gravel Construction Co., Inc., The Tugley Wood Foundation Supporters: Susan and Bob Titterton; Jeff and Penni Rochette; Franklin and Marion Kellogg

PROGRAM PARTICIPATION	2019
Education Programs	2140
Trainings	178
Sales Customers	46
Summer Camp	33
Vermont Envirothon	103
Conservation Programs	324
TOTAL PARTICIPANTS	2.824



Lamoille County NRCD Staff

Peter Danforth, Director 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

> USDA FSA Heather Mateja, CED ext. 3002

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.





APRIL

Children's Program, Vernal Pool Party

Thursday, April 9, 3:00-4:00 pm Stowe Free Library, Stowe

Thursday, April 23, 3:30-4:30 pm Varnum Library, Jeffersonville

Wednesday, April 29, 3:00-4:00 Johnson Public Library, Johnson

Come celebrate the return of vernal pools! These seasonal puddles are a temporary home for many animals. Find out who parties in the vernal pools, what goes on there and what happens when they are gone. Preschool-4th grade. FREE.

Welcome Spring Nature Playgroup

Wednesday, April 29, 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.

MAY

Welcome Spring Nature Playgroup

Wednesdays, May 6, 20, 27, 9:30-11:00 am Lamoille County Nature Center, Morristown

LCCD Tree Sale Pick Up

Saturday, May 2, 10:00-12:00 pm USDA Service Center, Morrisville Native tree and shrub order pick-up during this time.

Children's Program, Humble Bumblebees

Thursday, May 7, 3:00-4:00 pm Stowe Free Library, Stowe

Thursday, May 14, 3:30-4:30 pm Varnum Library, Jeffersonville

Monday, May 18, 6:00-7:00 pm Lanpher Memorial Library, Hyde Park

While the finicky honeybee gets all the attention, the humble bumblebee pollinates wildflowers and crops alike, rain or shine. Learn more about bumblebees and play the pollen game. Preschool-4th grade. FREE.

LCCD Conservation Field Day and Friendraiser

Sunday, May 17, 11:00-4:00, Oxbow Park, Morrisville Join us for a day beside the beautiful Lamoille River for conservation exhibits, workshops, a 50/50 raffle, silent auction and live music.



Vermont Envirothon

Tuesday, May 19, Shelburne Farms High school teams from across Vermont put their knowledge of forestry, wildlife, soils and aquatics to the test at the 25th annual competition.

JUNE

Welcome Spring Nature Playgroup

Wednesdays, June 10 & 17, 9:30-11:00 am Lamoille County Nature Center, Morristown

Children's Program, Snakes of Vermont

Thursday, June 11, 3:30-4:30 pm Varnum Library, Jeffersonville

Monday, June 15, 6:00-7:00 pm. Lanpher Memorial Library, Hyde Park

Who can slip out of their skin, smell with their tongue and have teeth but can't chew? Snakes of course! Preschool-4th grade. FREE.

Forest Fairy Camp

June 29-July 3, 8:00-12:00. Ages 4-5. \$120/nature center members, \$135/non-members

JULY

Sensory Superpowers Camp

July 6-10, 9:00-3:00. Ages 5-8. \$175/nature center members, \$200/non-members

Wild in the Wilderness Camp

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

Lamoille County Field Days

July 24-26. 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.



