Lamoille County Conservation District

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

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Spring 2016 Newsletter

LCCD SPRING 2016 NEWSLETTER





	Cî Lam	Lamoille County Conservation District Conserving Our Natural Resources since 1945						
A NAV GOV				RE	EA		EVVS UT EDITION 2, 10-12 @ USDA	
	Accepted Agricultural Practices			,	Versus		Required Agri	cultural Practices
	The current Accepted Agricultural Prac	he current Accepted Agricultural Practices (AAPs) regulation o not have a definition of a small farm and there is no small						
	Small Farm Operations (SFOs) must adhere to the AAPs, an Medium and Large Farm Operations (MFOs and LFOs) mus adhere to the AAPs and their respective general or individu permit rules. No matter how small or large, all farms must adhere to the Accepted Agricultural Practices.			it ual				
	The current AAP Regulations do not	Custor	n Manure A	nnlica			ertification program wil	
	have a certification program for custom manure applicators.						t of 8 hours of training	
	adjoining surface water (if SFO) or 25 feet of adjoining surface water (if MFO or LFO) or These setbad			feet o backs	other wastes shall not be applied within 25 feet of surface waters or et of a ditch or applied in such a manner as to enter surface waters. cks shall be the same for all size farms. Manure stacking no less than n wells or surfaces water and 100 feet from a ditch.			
	Nutrient Management Plans (NMPs) are only required for MFO and LFOs. SFOs a required to take soil tests every five years but are only encouraged to have an N						In addition to MFO and required to implement	,
	Livestock of SFOs can access surface waters if adequate vegetation maintained, and stream banks are left in their natural state.				tion is		I not have access to sur sings and defined water	face waters except for
	water. No requirements for intermittent stream of s			of s	arian buffer zones maintained in their natural state by at least 25 feet surface water. Buffer zones maintained by at least 10 feet along ermittent stream channels, ditches, or swales.			
		Step 1: An inspection is completed or a complaint isS			Step 1: An inspection is completed or a complaint is investigated,			
	5 ,				and an RAP violation has been found.			
					Step 2: A written warning can be issued or the Secretary can go straight to an administrative penalty and order a corrective action.			
				Step 3: Issue a civil penalty up to \$5,000 per violation, but shall not				

Step 3: If warning is ignored and no corrective action is completed, a cease and desist order may be issued, or a fine can be assessed.

Step 4: If a cease and desist order is ignored, the Secretary may issue an administrative penalty up to \$1,000 per violation, but shall not exceed to a total of \$25,000.

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.



Step 3: Issue a civil penalty up to \$5,000 per violation, but shall not exceed a total of \$50,000.

Step 4: If corrective action is not taken or the imposed fine is not paid, after due process (implying that the Secretary has exhausted all of the enforcement options), the Secretary may:

- Revoke the landowners Current Use provisions; and/or
- Reduce Livestock Numbers.

LAMOILLE COUNTY CONSERVATION DISTRICT

2016 PROJECT UPDATES



Vermont Association of Conservation Districts and LCCD State-Wide Proposals: Portable Skidder Bridge and Trees for Streams

LCCD and the Vermont Association of Conservation Districts (VACD) continue to work together to provide mini-grants to Districts state-wide to reduce nonpoint source pollution by planting riparian buffers and augmenting the supply of portable skidder bridges throughout the state. To date, the Trees for Streams program has enabled districts to plant 35 acres of buffers. The Portable Skidder Bridge Program has so far constructed 11 additional bridges that are available for loggers statewide.

Portable Skidder Bridge Construction

Thanks to Green Mountain Technology Career Center Forestry Program students, LCCD now has TWO new Heavy Duty Bridges available to rent to loggers for safe passage along waterways!

Trees for Streams 2016

The local LCCD TFS project is assisting the Vermont River Conservancy to complete a four acre buffer project just outside of Cambridge this May. We're happy to report that the area will soon be open to the public and will be a great birding and pollinator site for years to come!

Connecting the Mid-Lamoille Culvert Project

LCCD provided engineered designs for two identified high priority culverts in need of replacement in the Town of Eden and Hyde Park. LCCD will continue its efforts to seek grant funds for construction in 2017.

Hyde Park Stormwater Improvement Project

The Hyde Park Stormwater Improvement Project will begin construction this summer! In 2015, LCCD received a \$75,000 VT ANR Ecosystem Restoration Program Grant to install stormwater practices to capture non-point source pollutants from entering Centerville Brook. A gully restoration, rain garden, and a bioretention area will transform the area completely!

Stowe Elementary Green Stormwater Infrastructure Plan

LCCD is Stowe Bound! LCCD will reduce stormwater runoff and future flooding impacts by identifying and developing a Green Stormwater Infrastructure (GSI) Plan on the Stowe Elementary School Campus. The goal of this project is to increase school and municipality partnerships and participation to implement watershed restoration practices while improving water quality and reducing stormwater runoff in urban areas.

Technological Updates

LCCD will be upgrading its out of date website to a new functional platform to increase LCCDs ability to communicate and provide information to a wide-variety of audiences. The new website platform will restore the functionality to the website, and provide an avenue for partners to link to the website. A special thanks to Powershift for helping assist LCCD in the transition.

VT Agency of Natural Resources: Vermont Forest Health Information Meeting

April 13, 2016 at Woodstock Union High School, Woodstock, VT

Foresters, public lands managers, arborists, loggers, and conservation managers are welcome to attend this informational meeting with a wide variety of speakers, and subject matters affecting the health of Vermont Forests. Be sure to attend Kim's presentation on the Vermont Portable Skidder Bridge Program! There is no cost and no pre-registration. For more information, contact Josh Halman at 802-279-9999 or joshua.halman@vermont.gov.

Lamoille County Stormwater Solutions I and II

LCCD completed three (photos right) Green Stormwater Infrastructure (GSI) projects this fall for and with assistance from the town of Morristown and the Morrisville Highway Department, thanks to a Lake Champlain Basin Program Grant. One very large project at Morristown Elementary School resolved a long history of erosion and stormwater runoff near the playground. The other projects included a Rain Garden at Morristown Centennial Library, and at the new Park & Ride across the street which will be planted this spring with flowering shrubs. Two more projects are scheduled this summer in Morrisville and Hyde Park!

Top photo below: Rain Garden at the Library Bottom: Rain Garden at Park & Ride





Top photo below: Before at MES Bottom: After Infiltration Gallery







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 6, 2016. 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 11th 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 11th or May 12th. 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.

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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 ch	eck your member status on page 4 to rea	ceive member rates
lots	x \$65 (\$50 for members)	=
ots	x \$65 (\$50 for members)	=
lots	x \$215 (\$200 for members)	=
ots	x \$215 (\$200 for members)	=
\$500 Ste	ward \$1000 Conservationist	=
	TOTAL	=
Mail		
none		

Fewer Trees, Fewer Choices...fir a good reason. LCCD's Tree Sale trees and shrubs are available through the ordering of trees for our restoration efforts. 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 vey limited. While we do our best to continue this program, this year was a challenge for us to retain the species were normally order. We've opened the selection up to larger Ball & Burlap trees with hopes the reach the need of our community. These are larger and will need a truck for transport in most cases and will be picked up the following week at the LCCD Office. We hope to return to a diverse selection next year. Please let Kim know which species you may be interested in for next year and we'll do our best to get it on the list. Thanks for your patience!

LAMOILLE COUNTY CONSERVATION DISTRICT 2016 CONSERVATION TREE SALE ORDER FORM

Date: ______ Name: ______

Tree Species (Root Ball & Burlap) NEW!!	Will be picked	Will be picked up at LCCD Office May 7 or at scheduled time			
Balsam fir (<i>Abies balsamea</i>)	3-4'	\$15			
Northern White cedar (Thuja occidenta	lis) 3-4'	\$9			
Red maple (Acer rubrum)	6-8'	\$18			
Sugar maple (Acer saccharum)	6-8'	\$18			
White birch (Betula papyrifera)	6-8'	\$18			
White pine (Pinus strobus)	3-4'	\$15			
Flowering Shrub Species (Bare Root)					
Elderberry (Sambucus canadensis)	3-4'	\$8			
Highbush cranberry (Vibunum trilobum) 3-4'	\$10			
Nannyberry (Viburnum lentago)	2-3'	\$5			
Red osier dogwood (Cornus sericea)	3-4'	\$8			
Winterberry (Ilex verticillata) Order 2 fo	or M&F 2-3'	\$10			
Fruit Species (Bare Root)					
Blueberry – Bluecrop	18-36"	\$10			
A minimum of \$	PLANT SUBTOTAL				
Order deadline is April 29th.	Member Benefits eadline is April 29th. First choice orders will be taken from members <i>only</i> until April 22nd Members receive 5% off entire order				
Make me a Member/Renew Membershi \$35 Individual \$60 Family \$125 Support	Member:				
Pre-payment is r Send to: LCCD 109 Profes	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 arrangements if needed with LCCD before Saturday. All orders must be picked up on Saturday, May 7th (Green Up Day) between 10:00 am and 12:00 pm at

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





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

Thank You Carrie Riker aka Nature Lady, Ms. Riker, Friend of Forest Fairies!!!

Many children, probably hundreds in Lamoille County, have grown up with Carrie Riker. If they know about the teepee, are great frog catchers, or tasted homemade maple ice cream, then most likely they have learned these most important life lessons from Carrie. Whether at the nature center, in a local library, or in a school yard, Carrie has shared the gems of nature with area youth for fifteen years through Lamoille County Nature Center's programs. Her coordination for the Vermont state-wide Envirothon helped shape young adults to value and be knowledgeable about contemporary environmental topics. Carrie developed the education program as it is today and helped make our community a little smarter about the importance of all things wild. Carrie will continue her nature endeavors and continue to expand environmental literacy in Vermont with North Branch Nature Center and Twinfield Union School. We wish her well and appreciate her passion and service to LCCD. Happy Trails Carrie!!!

Wildlands and Waters Project at Lamoille County Nature Center – THANK YOU!!!

LCCD received a very generous, anonymous, and much appreciated donation to revive and expand work at the nature center on Cole Hill Road. The Wildlands and Waters Project will build the capacity for program expansion at the nature center by expanding the trails and access, installing much needed interpretive and wayfinding signs, and creating additional educational programs and curriculum specific to this Wildlands and Waters Project.



Nature Center Happenings 2016—Naturalist Walks & Journaling Thanks to the donation above, Kim will be dusting off her naturalist hat to lead a themed walk at the nature center on the second Saturday of the month this summer from 10:00am-11:30am. Nature Journaling is encouraged. All participants are welcome, members are free.

The Nature Center Work Day is scheduled for June 4 from 10:00am-12:00pm. Volunteers can help raise the teepee, spruce up the trails, or get the signs ready. Please contact us if you'd like to help.

The 21st Annual Vermont Envirothon - Invasive Species

The state-wide annual Vermont Envirothon offers high school students an opportunity to learn about the environment and gain the knowledge, skills, and willingness to participate in natural resources problem solving. At the culminating event on May 19, 2016 at the Common Ground Center in Starksboro, we anticipate 14 teams from schools throughout the state to participate. This year's current issue topic, "Invasive Species", requires students to investigate the impact of invasive species on the environment, economy, and society. They will create a plan to manage invasive species on a local site in their community. Additional topics include Aquatics, Forestry, Wildlife, and Soils. Interested in learning more about this event by volunteering in May? Contact Carrie for details.

Lamoille River Paddlers' Trail Social – May 4th Landmark Tavern, Johnson, Vermont Join us for the 1st Annual Lamoille River Paddlers' Trail Social on Monday May 4th from 5:00-7:00pm at the Landmark Tavern in Johnson! Join other river enthusiasts to celebrate recent accomplishments, including the establishment of the first official paddler campsite and portage trails around Sloping and Dog Head Falls, and learn about projects planned for 2016. There will be an optional group paddle to the tavern, leaving from Sloping Falls at 5:00 pm. Free appetizers, cash bar, raffle, dinner available for purchase, with a portion of proceeds going toward the Paddlers' Trail. RSVPs appreciated to noah@vermontriverconservancy.org





Naturalist Walk Themes: May – Birds & Blooms; June - Flowers & Trees; July – Forests & Fields; and August – Frogs & Ponds.

LRPT Volunteers at Sloping Falls in Johnson





Gratitude and appreciation to LCCD's Generous Members:

Conservationist: Concept2, Inc.

Sponsors: Joni Lanphear & Michael Paritz – Leo's Small Engines Supporters: Donald Blake Jr. Inc.; Robert Burley; Elizabeth & Nicholas Deane; James & Joanne Schoff; Union Bank

PURPOSE	CONSERVATION EDUCATION PROGRAMS & PROJECTS	NUMBER of PARTICIPANTS 2016
Education Programs	90 Programs offered for classes &/or venues that include Pre-K, Elementary, Middle, and High School students.	1,522
Family & Public Programs	32 Programs at Lamoille County libraries, playgroups, scout meetings, and community events.	652
Junior Naturalist Programs	4 Programs for children ages 5-11, to learn about nature through books, games, crafts and inside and outside explorations.	30
Summer Camp	7 week-long sessions held at the Nature Center Property. Themes range from The Secret Garden to Farm Adventures.	60
Vermont Envirothon	Lamoille County NRCD coordinated this event for the tenth year on behalf of VACD and its partners.	160
Teacher Training	4 Professional Development Workshops for Morrisville Area Providers Network.	69
Conservation Programs	Land Management Programs ranging from TFS to Stormwater Projects.	326
	TOTAL PARTICIPANTS in LCCD PROGRAMS AND PROJECTS	2,519

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; Thomas Amison & Karen Harvey; Carlton & Lelita Annis; Travis & Kate Apple; Jan & Richard Bailey; Donald Blake Jr. Inc; Boyden Farm; Fred Browne; Robert Burley; Emily Buskey; Anne & Mike Cassidy; Al & Alice Cepetelli; Dennis & Deborah Chevalier; John & Judy Clark; Steven Cummings; Charlie Davis; Elizabeth & Nicholas Deane; Laura & Dwight Denton; Bob Durand & Nancy Demers; Todd Fitch: Kevin & Carla Fitzgerald; Jim & Jan Fontaine; Pete & Ali Gerson; Mary Grace & James Calhoun; Becky Graddock; Everton & Marge Graves; Denise & Todd Greene; Cara & Steve Hancy; Penelope Harris; Dorcas Jones; Kristen Knight & Mitch Jones; Kathleen & Andrew Knittle; Kenneth Lamb; Joni Lanphear & Michael Paritz; Carol Lawrence; Tony Lehoullier; Steve & Carol Lichenstein; Jill Lindenmeyer; Pixie Loomis; Sue Ludington in memory of Chris Ludington; Marc Mallot; David & Lucy Marvin; Donald & Susan Miller; Ann Nichols; Ann Nichols; Kim Nichols; Sally & Peter Nolan; Richard Norman; Eric Nuse; Peter & Shirley Opstrup; John & Faith Parker; Ernie Patnoe; Chuck Pepe; Ed Perkins; Michael & Louisa Pfaelzer; Doug & Mary Philipsen; David Pound; Power Shift; Cindy & Randy Pratt; William & Donna Putnam; Jim Ryan; Jim & Ruth Santos; James & Joanne Schoff; Mark & Sukey Schroeder; CJ & Gale Seitz; Fran Sladyk; Anne Smith & Tim Monaghan; Al Sparks; Kermit & Hazel Spaulding; Ron & Judy Stancliff; Christopher Strong; Anne Thursby; Bob & Susan Titterton; Chris & Mary Ann Tormey; Union Bank; Christine & Douglas Varney; Amy & Chris Whitlock; Independent order Oddfellows Charity Rebekah Lodge No.38.

Lamoille County NRCD Staff Kimberly Jensen, Director Kimberly.jensen@vt.nacdnet.net (802) 888-9218 ext. 113

Carrie Riker, Education Coordinator ext.117 Carrie.riker@vt.nacdnet.net

USDA NRCS

Corey Brink, Zone District Conservationist Nancy Allen, Soil Conservationist ext. 115 Philip Wilson, Soil Conservationist ext. 116

USDA FSA Heather Mateja, CED ext. 111 Laurie Locke, Admin. Assistant ext.100

Lamoille County NRCD Supervisors

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



Children's Program, Mud Mysteries

Preschool-4th grade.

Why do we have mud season in Vermont? Is it still here or has it passed us by? Why would we have a good or bad mud season? What is good about mud & how do animals use it? No registration required. FREE.

Monday, April 11, 10:00-11:00 am. Preschool-4th grade. Varnum Memorial Library, Jeffersonville Monday, April 25, 6:00-6:45 pm. NIGHT OWL! Lanpher Memorial Library, Hyde Park Wednesday, April 27, 3:00-4:00 pm. Preschool-4th grade Stowe Free Library, Stowe

MAY

LCCD Tree Sale Pick Up GREEN UP DAY

Saturday, May 7, 10:00-12:00. USDA Service Center. Native tree and shrub order pick-up during this time.

LCCD Trout Sale Pick Up

Wednesday, May 11, 12:00-1:00 pm. Oxbow Park, Morrisville Trout order pick-up during this time.

Naturalist Walk at the Nature Center - Birds & Blooms

Saturday, May 14, 10:00—11:30 am. All ages welcome. Bring binoculars, and nature journals to explore the sights and sounds of the nature center. FREE/members, \$5 non-members

Children's Program, Feathered Friends

Many birds have returned to Vermont at this time of year. Learn some tips and tricks to identify them, hear some bird language, and play the migration challenge game. No registration required. FREE.

Monday, May 16, 10:00-11:00 am. Preschool-4th grade. Varnum Memorial Library, Jeffersonville Monday, May 23, 6:00-6:45 pm. NIGHT OWL! Preschool-4th grade. Lanpher Memorial Library, Hyde Park Wednesday, May 25, 3:00-4:00 pm. Preschool-4th grade. Stowe Free Library, Stowe

JUNE

Nature Center Work Day

Saturday, June 4, 10:00-12:00. All ages welcome Lamoille County Nature Center, Cole Hill Road, Morrisville Come help spruce up our nature center & put up the teepee.

Children's Program, Nature Olympics

Get rolling with the summer library reading programs and learn fun facts about Vermont animals and natural phenomena. We'll then hold the first ever Nature Olympics and see how our skills match up to nature's amazingness. No registration required. FREE.

Look on the LCCD website for the Program Calendar to find out when we will be at Lamoille County area libraries.

Naturalist Walk at the Nature Center - Flowers & Trees

Saturday, June 11, 10:00—11:30 am. All ages welcome. Bring field guides and nature journals to explore the sights and smells of the nature center. FREE/members, \$5 non-members

Naturalist Walk at the Nature Center - Forests & Fields

Saturday, July 9, 10:00—11:30 am. All ages welcome. Bring field guides and nature journals to explore the sights and sounds of the nature center. FREE/members, \$5 non-members

Naturalist Walk at the Nature Center - Frogs & Ponds

Saturday, August 13, 10:00—11:30 am. All ages welcome. Bring field guides and nature journals to explore the sights and sounds of the nature center. FREE/members, \$5 non-members

SUMMER CAMPS

Summer Camps 2016

Our 2016 Summer Camp Brochure is hot off the press, available on our website or by mail by calling us! (888-9218 ext. 117).

Summer 2016 Campership Fund

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

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Programs take place at Lamoille County Nature Center on Cole Hill Road in Morrisville. Camperships may be available. Contact us for details. Register by May 13 to get \$10 off your registration fee!

Howl, Tweet, Roar

June 27-July 1, 9:00-3:00. Ages 5-8. \$175/nature center members, \$200/non-members

Outdoor Adventures

July 5-8, T-W, 9:00-3:00. Sleepover Thursday. Ages 8-11. \$175/nature center members, \$200/non-members

Things with Wings

July 11-15, 9:00-11:30. Ages 5-8. \$175/nature center members, \$200/non-members

Girls From the Ground Up

July 18-23, M-W 9:00-3:00. Sleepover on Thursday. Ages 9-12. \$175/nature center members, \$200/non-members

Where the Wild Things Go

July 18-22, 9:00-3:00. Ages 8-11 \$175/nature center members, \$200/non-members

Raptor Rave

July 25-20, 9:00-3:00. Ages 5-8. \$175/nature center members, \$200/non-members

PROGRAM REGISTRATION <u>REQUIRED</u> UNLESS OTHERWISE NOTED Look for Program Details and the Summer Camp Brochure at www.lcnrcd.com