

# WINOOSKI NATURAL RESOURCES CONSERVATION DISTRICT

Spring 2008

## 25th Annual Plant Sale *SPECIAL EDITION*



The Winooski NRCDC has been offering its Annual Conservation Plant Sale for 25 years. We are committed to offering this sale in the hopes of promoting the planting of native trees and shrubs throughout Vermont's landscape. Furthermore, it is a fund-raiser for the Winooski NRCDC. The money that we make on the Plant Sale allows us to bring workshops, educational information, and high-quality conservation programs to the people in our District. We hope that you feel as positive about our tree sale as we do. Find this year's Order Form inside.

**Orders must be postmarked by Monday, April 7th, 2008.**

Limited quantities are available. Order Early!  
Orders will be processed First Come—First Serve.

**All orders must be picked up on Saturday, May 3rd, 2008  
between 9am—Noon in Williston or Berlin.**

At the Plant Sale, all trees will come as bare root. Bare root means that the plants are dug and stored without any soil around their roots.

### What are the advantages of planting bare root trees?

- **More root mass.** Bare root trees can have up to 200% more roots than container trees, depending on the soil and transplanting history at the nursery.
- **Lower cost.** Without extra labor and materials, bare root trees cost both the seller and buyer less.
- **Easier planting.** A young tree without soil weighs little, so it's easy to move and plant.

### There must be *some* disadvantages!

- **Less flexibility.** Once they leave the nursery, bare root trees need to get in the ground within a week. Without soil, the roots can dry out and die if left exposed for a long period of time.
- **Narrower planting window.** Bare root trees need good soil moisture, so mid spring (before budbreak)

and mid fall (after leaf fall) are the only two possible planting times.

- **Restricted availability.** Some species may not be available bare root, and some nurseries may not have trees available for bare root retail sale at all.

### Other bare root tips and techniques:

- Use any technique you can to reduce the time the tree roots are bare.
- Order 1.5-2" trees to be dug within 24 hrs of your arrival, otherwise be sure they are stored in a cool place.
- Have fall trees dug mid-October to late November, spring trees late March to early May.
- If possible, dip tree roots in a slurry of a *hydrogel* (a synthetic water-absorbing compound, many brands available) or muddy water, then store them in large, plastic bags until planting.
- Keep trees covered, shaded, and moist until actually put in the ground.

### Winooski NRCDC Mission Statement

*Connecting people to a sustainable landscape*

- ◇ To ensure the wise use, protection and enhancement of Vermont's natural resources through the use of local initiatives, education, and partnerships.
- ◇ To foster public awareness and appreciation for the value and need for natural resource conservation.
- ◇ To advance the understanding that we are all stewards of the living earth.

### We are looking for volunteers!

Please contact Jessica  
Andreoletti at 865-7895  
x104 for information.



It is our hope that you enjoy reading our mailings as much as we enjoy writing them. However, if you no longer wish to be on our mailing list please contact Anna Farmer at 865-7895 x204 or [anna.farmer@vt.nacdnet.net](mailto:anna.farmer@vt.nacdnet.net) to be removed.

# WHAT'S NEW IN THE WATERSHED?

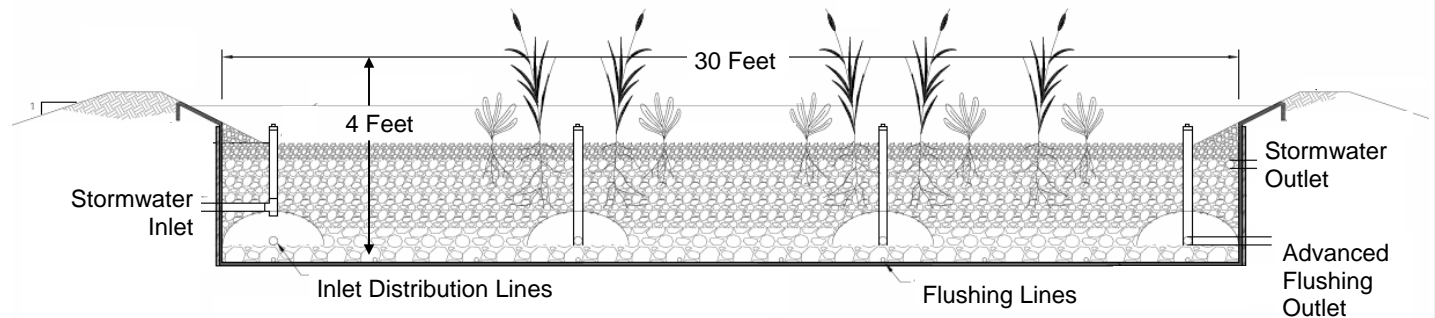
In November 2007 the Winooski NRCDC contracted the environmental engineering firm EcoSolutions to design and build a stormwater treatment system that would decrease runoff and pollution in the impaired Potash Brook watershed of South Burlington. A highly channelized tributary of Potash Brook runs through Farrell Park, a 23-acre recreational park. The park is managed by the City of South Burlington and includes two athletic fields, a small playground and 0.75 acres of gravel parking lot. Due to the lack of floodplain in the tributary, sediment from the Farrell Park gravel parking lot was exported directly to Potash Brook. EcoSolutions proposed an Advanced Wetland Stormwater Filter (AWSF), for treating stormwater runoff generated from Farrell Park.

The AWSF is comprised of four distinct components, which include: 1) an inlet distribution system; 2) an outlet collection system and water level control; 3) a filter media; and 4) the Advanced Flushing System. Flow through the wetland is horizontal. Influent stormwater is introduced at one end, on the bottom of the wetland and collected at the top of the opposite end. A series of manifolded infiltration chambers are installed at even intervals perpendicular to the flow on the bottom of the wetland to minimize short

circuiting. Three different layers of stone are arranged within the wetland cell, with the largest on the bottom, and graded to pea stone on the top. The permanent water level is maintained just below the surface of the pea stone with an adjustable stand-pipe system. The AWSF has a unique flushing system that provides the opportunity to rejuvenate the wetland cell by allowing accumulated sediment to be safely flushed from the stone media. The flushing system enhances treatment and extends the life of the system.

The AWSF is the first of its kind to incorporate a flushing system in the nation. However, standard gravel wetlands observed at the University of New Hampshire's Stormwater Center have proven to be superior to the 9 other stormwater treatment systems studied by the Center. The Center found gravel wetlands to be effective at removing an average of 99% of the Total Suspended Solids.

The Winooski NRCDC wishes to express their gratitude to EcoSolutions, LLC and partners for their expertise and commitment, the City of South Burlington Stormwater Utility Crew for their in-kind donation of machinery and labor, and the Environmental Protection Agency for their financial support.



**Advanced Wetland Stormwater Filter (AWSF) - Section View**

## Avoid Cabin Fever... Become a District Volunteer

Lend a hand at the Conservation Plant Sale; assist with the Rain Barrel Community Project in area schools; seek out new urban conservation project sites; gain experience with writing grants and implementing environmental education lesson plans; or participate in community outreach events as a District representative. Volunteering is a great way to promote sustainability in your watershed while engaging in local environmental issues and resolutions.

To learn more about these volunteer opportunities visit our website, [www.vacd.org/winooski](http://www.vacd.org/winooski)

## Vermont Rain Garden Manual: Gardening to Absorb the Storm

Just in time for spring, Vermont's own Rain Garden Manual is available for free to anyone who is interested in protecting our local rivers and lakes through gardening. This sixteen page, full color Manual includes step-by-step instructions on rain garden design and installation; five creative planting plans; information about curb-cut rain gardens (perfect for urban streetscapes); a rain garden plant list (including 150 plants suitable for Vermont rain gardens), and an explanation of how rain gardens are compatible with the Vermont Stormwater Management Manual.

Starting April 1st, pick up a copy of the Manual at **Elmore Roots Nursery** (800-42-PLANT), Elmore, and **Arcana Gardens & Greenhouse** (802-899-5123), Jericho. These two local garden centers have demonstrated a commitment to protecting our local waterways by providing financial support and committing to carry rain garden specific plants and supplies.

*This work is sponsored in part by:* Lake Champlain Sea Grant, NOAA National Sea Grant College Program, US DoC.; The Cooperative State Research, Education, and Extension Service, US Department of Agriculture, under Agreement No. 204-51130-03108; Environmental Protection Agency; Chittenden Bank



**CONTACT US:** *Berlin office:* 617 Comstock Road, Suite 1, Berlin, Vermont 05602, 802-828-4493 x110, [Abbey.Willard@vt.nacdnet.net](mailto:Abbey.Willard@vt.nacdnet.net)  
*Williston office:* 1193 South Brownell Road, Suite 35, Williston, Vermont 05495, 802-865-7895 x104, [Jessica.Andreoletti@vt.nacdnet.net](mailto:Jessica.Andreoletti@vt.nacdnet.net)

# PLANT SALE RAFFLE

We are pleased to offer a diversity of raffle prizes at the 25th Annual Conservation Plant Sale, including Community Supported Agricultural (CSA) Farm goods and rain barrels painted by Champlain Valley Union High School students. Generously donated raffle items are offered at each Plant Sale pick-up location on **Saturday May 3rd, 2008 between 9-12**. The Raffle drawing for each item will take place on Monday, May 5th and winners will be notified at that time. Funds received from the raffle will contribute to the pursuit of conservation efforts and technical assistance in your watershed. Members will receive 3 free raffle tickets—otherwise tickets are for sale...

**1 Raffle Ticket for \$5**  
**3 Raffle Tickets for \$10**  
**4 Raffle Tickets for \$15, etc...**



Winooski NRCDC is pleased to offer the Winooski River watershed community artfully excellent and scientifically sound rain barrels at the Plant Sale. A rain barrel catches stormwater at its source, before it runs across the landscape and into our waterways. The stormwater collected in a rain barrel can be used to water lawns and gardens; thereby conserving water and protecting water quality.

CSA Farms are comprised of a community of individuals who pledge support to a farm operation, with the growers and consumers providing mutual support and sharing the risks and benefits of food production. In return, individuals and families receive shares in the farm's bounty throughout the growing season, as well as satisfaction gained from reconnecting to the land and participating directly in food production. To learn more about CSAs in our watershed visit the websites listed at right or <http://www.vermontagriculture.com/buylocal/buy/csa.html>



[www.wellspringcsa.com](http://www.wellspringcsa.com)

**BERLIN:** 1 rain barrel OR 1 weeks worth of produce (\$35-\$55 value) from Wellspring Farm CSA, Marshfield AND a \$50 voucher for meats from Gaylord Farm, Waitsfield.



[www.gaylordfarm.com](http://www.gaylordfarm.com)

**WILLISTON:** 1 rain barrel OR 2 weeks worth of produce (\$50 value) from the Intervale Community Farm, Burlington.



[www.intervalecommunityfarm.com](http://www.intervalecommunityfarm.com)

## PLANT SALE 2008 SPONSORS



**COUPONS COUPONS COUPONS!!!** Home Depot has generously donated coupons for free bags of topsoil in correlation with the number of plants purchased. Members will receive double coupons.

**1 coupon for 10 trees - 2 coupons for 20 trees - 3 coupons for 30 trees**

Financial support for the 25th Annual Conservation Plant Sale was provided by The James L. Fitzgerald Charitable Foundation, Inc., North Country Federal Credit Union, and Green Mountain Power. Special Thanks to all of our Sponsors for making this year's Sale a prosperous success.

*The James L. Fitzgerald  
Charitable Foundation, Inc.*



**NORTH COUNTRY**  
FEDERAL CREDIT UNION



### STAFF

*District Manager:* Abbey Willard  
*Asst. Manager:* Jessica Andreoletti  
*Nat. Res. Conservationist:* Anna Farmer  
*Treatment Planner:* Jason Fleury  
*Land Treatment Planner:* Marybeth Whitten  
*Basin Planner & Ag. Resource Specialist:*  
 Susan Alexander  
*Bookkeeper:* Cherie Staples

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 Tom Bushey, Supervisor  
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 Don Hipes, Assc. Supervisor  
 Carrie Deegan, Assc. Supervisor  
 William Moulton, Assc. Supervisor

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Winooski NRCD  
617 Comstock Road, Suite 1  
Berlin, Vermont 05602

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Montpelier, VT  
05602  
Permit # 49

*Win a rain barrel or farm fresh products. See inside for details...*



**Members Only:** WNRCD Members will receive...

**3 FREE** raffle tickets for a chance to win rain barrel or local farm goods;  
**DOUBLE** the amount of soil coupons donated by Home Depot;  
... when they stop by the Tree Sale on Saturday, May 3rd.

Fill out a membership form at the Plant Sale to receive Membership Perks. Remember, we are only as strong as community support allows. Thanks for your support!

**SUPPORT WINOOSKI NRCD BY BECOMING A MEMBER**

The District needs funds now more than ever. Membership will bring you a special gift with your Conservation Plant Sale order, complimentary raffle tickets and double soil coupons at the Sale, and the comfort of knowing that the good work the District does in your community will continue into the future. Please take a moment to fill out the membership form below and return to the address below with your tax-deductible donation. Thank you for your support.

Name \_\_\_\_\_  
Address \_\_\_\_\_  
\_\_\_\_\_  
Phone \_\_\_\_\_  
E-Mail \_\_\_\_\_

Student Membership	\$25
Individual Membership	\$35
Family/Couple Membership	\$60
Professional Membership	\$125
Naturalist	\$250
Conservationist	\$500
Steward	\$1000



Please send this form along with your check to:  
Winooski NRCD: Fundraising  
1193 North Brownell Road, Suite 35  
Williston, VT 05495

New Member       Existing Member