Singing in the Rain Wisconsin Rain Gardens

Brent Hanson of Hanson's Garden Village Rhinelander, Wisconsin





Rhinelander, WI

- Average Annual Precipitation
 - 31.4 Inches
- 2016 Annual Total
 - 44.9 Inches

13.5 inches more than normal

HOW MUCH RAIN FROM A 2000 FT² ROOF?

2000 ft² x 31.5" annual precipitation x 0.623 =

39,249 gallons

(1246 gallons in just a 1 inch rain event)

SURFACE FLOW CAN ERODE SOIL AND MOVE SEDIMENTS AND POLLUTANTS











SO WHAT IS A RAIN GARDEN?



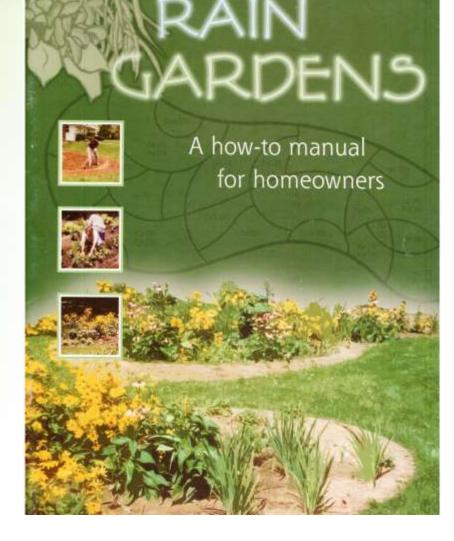
SUCCESS

FAILURE

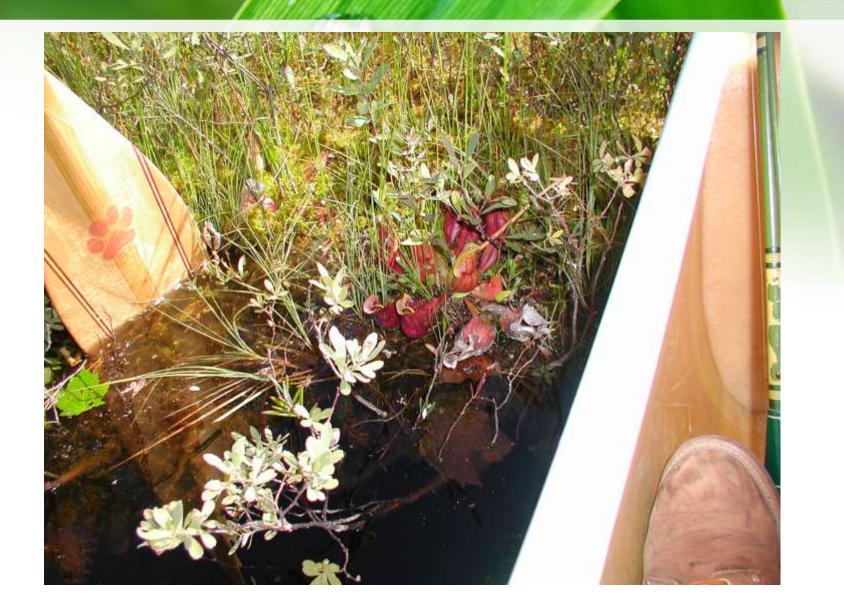




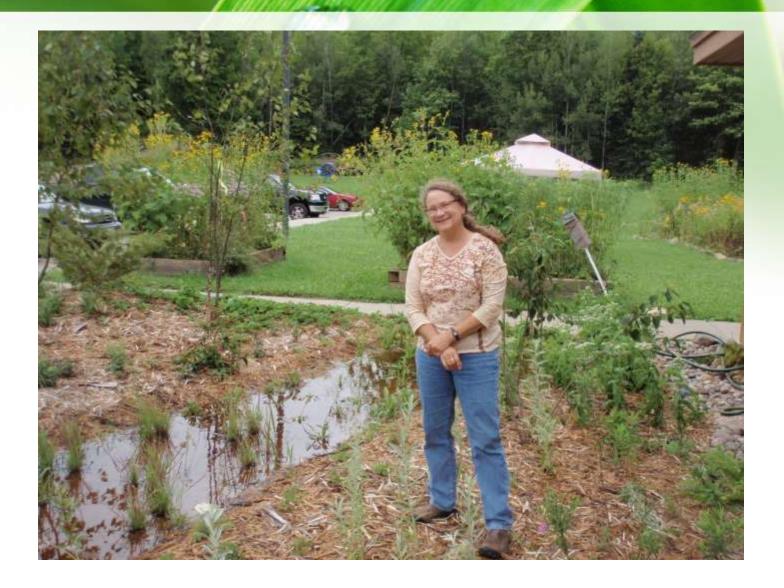
THANK YOU WISCONSIN LAKES PARTNERSHIP – UW EXTENSION



A RAIN GARDEN IS NOT A POND

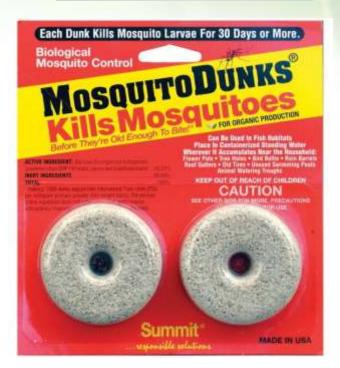


THEY CAN INCLUDE WETLANDS



Mosquitoes hatch in 10-14 days.





HOW EXPENSIVE IS A RAIN GARDEN?

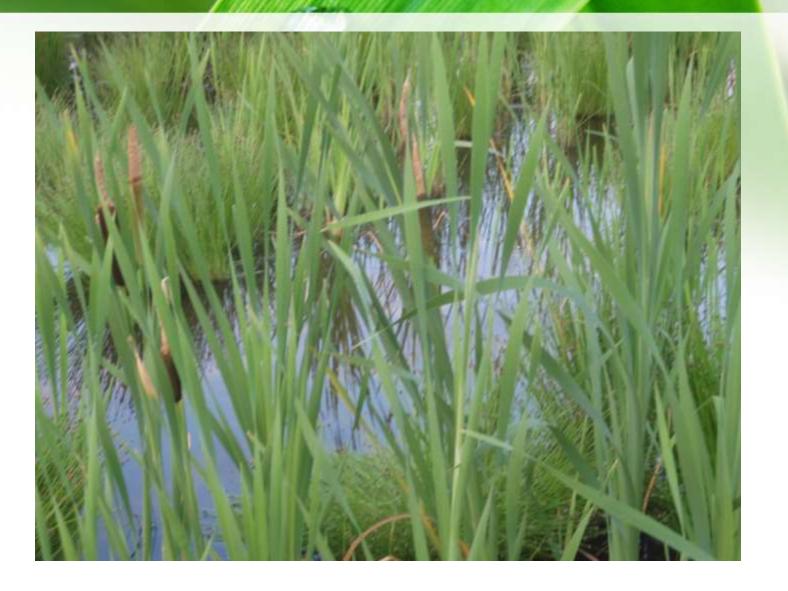
- According to Wisconsin Healthy Lakes Initiative, typical singlefamily rain gardens ranging from 150-600 ft² can run from \$500 to \$9,500
- A 600 ft² rain garden may cost \$3000







CATTAILS MOVING IN





WE WANT PEOPLE TO HAVE ACCESS











OUR RAIN GARDEN





WHERE TO PLACE THE RAIN GARDEN?



SOME SLOPES ARE TOO STEEP



HERBICIDE OPTIONS

GLYPHOSATE



ORGANIC



CALL DIGGER'S HOTLINE

- Allow three business days
- 1-800-242-8511
- www.diggershotline.com



WORK IN COMPOST OR AGED MANURE

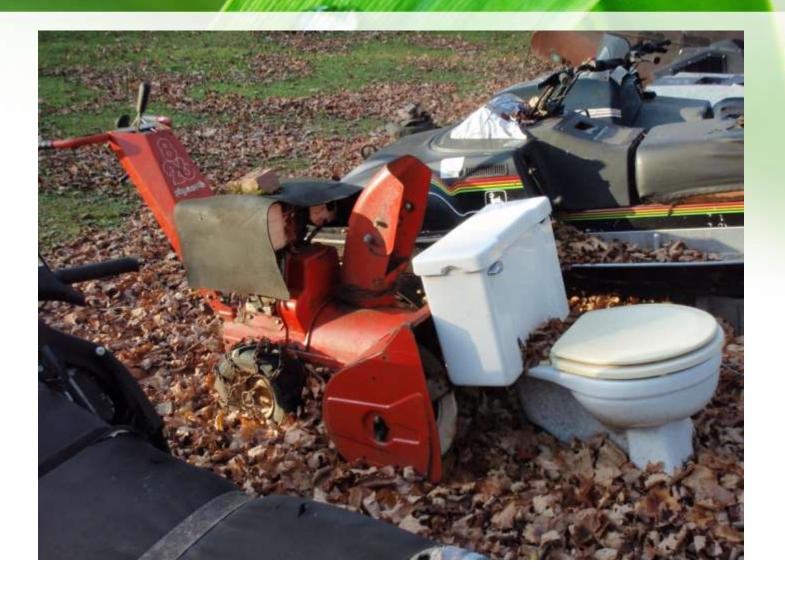
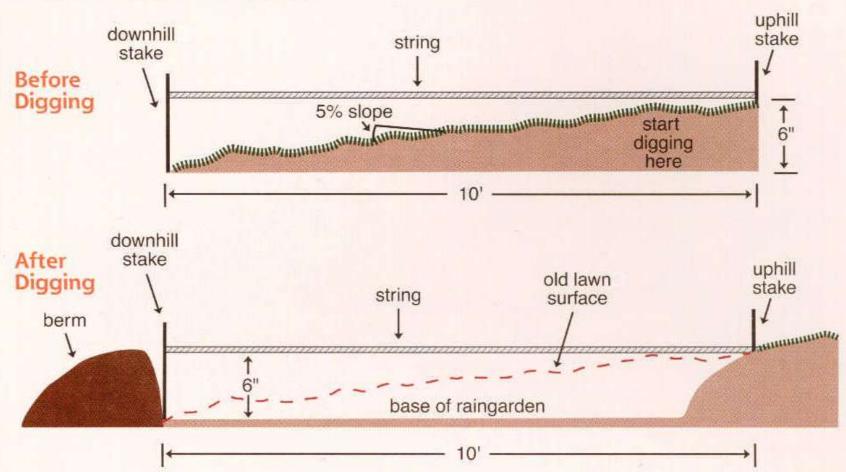


Figure 4 Where to dig and where to put the soil you've dug.



a. Between 3% and 8% slope lawn

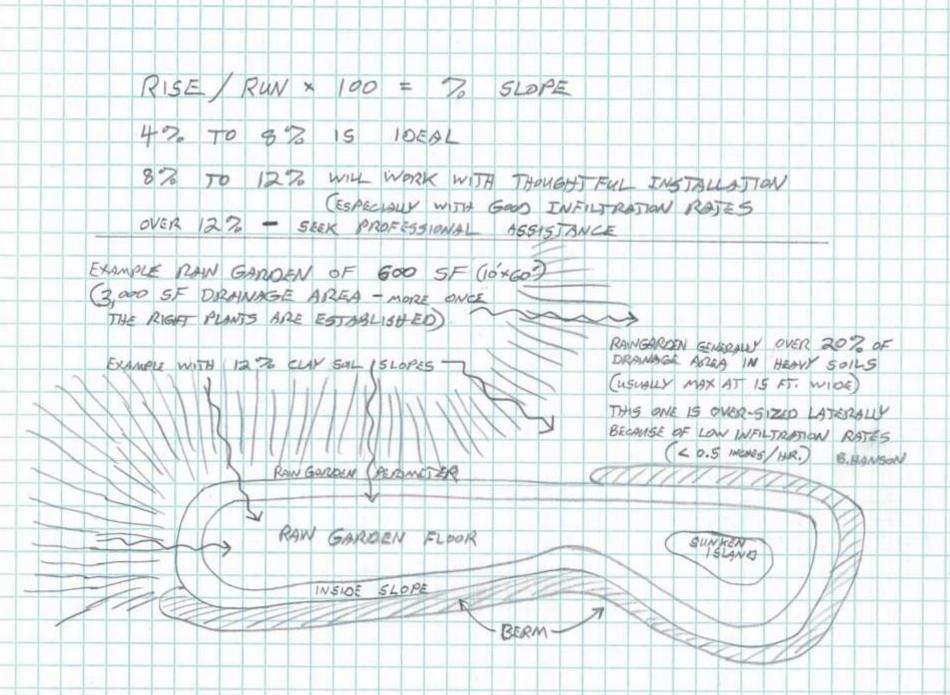




ILLUSTRATION CREDIT: WILD ONES



NOW THE FUN BEGINS



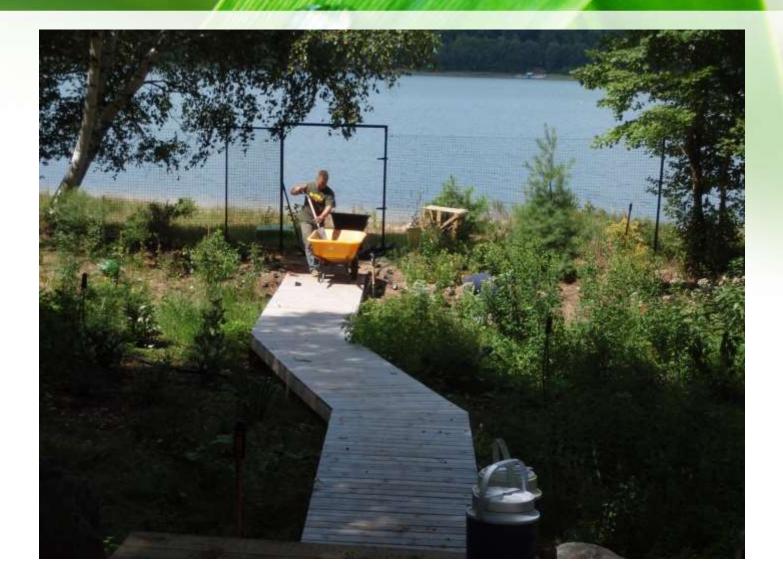
CURLEX NET FREE[™] AND PLANTS AT 1 FT SPACING



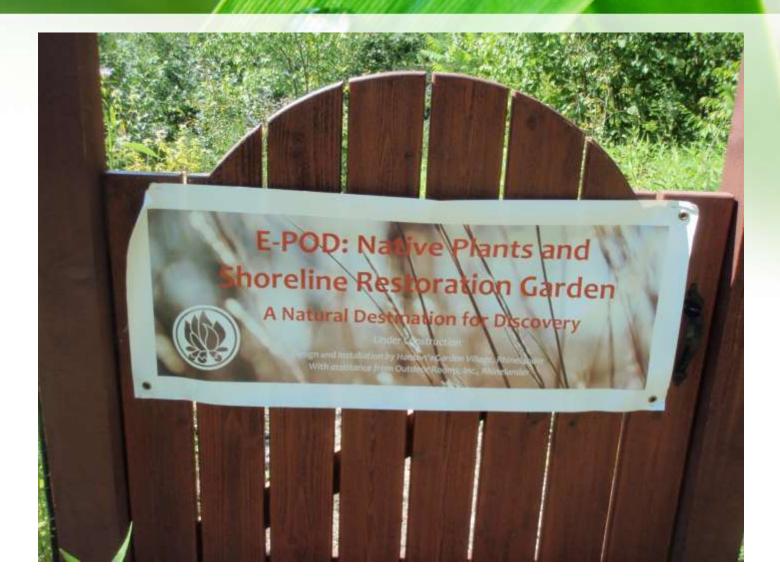
CURLEX NET FREE™ ON RAIN GARDEN FLOOR SHREDDED CEDAR MULCH ON BERM



DO YOU NEED DEER FENCING?



NORTH LAKELAND DISCOVERY CENTER

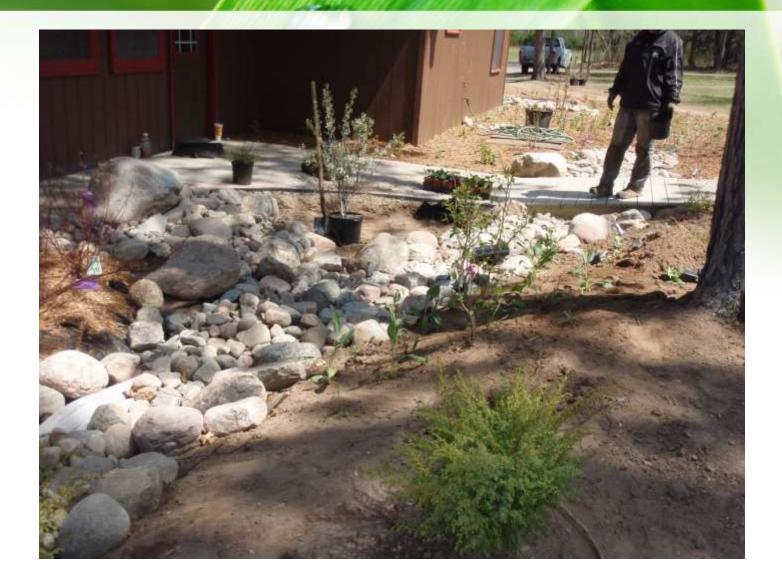




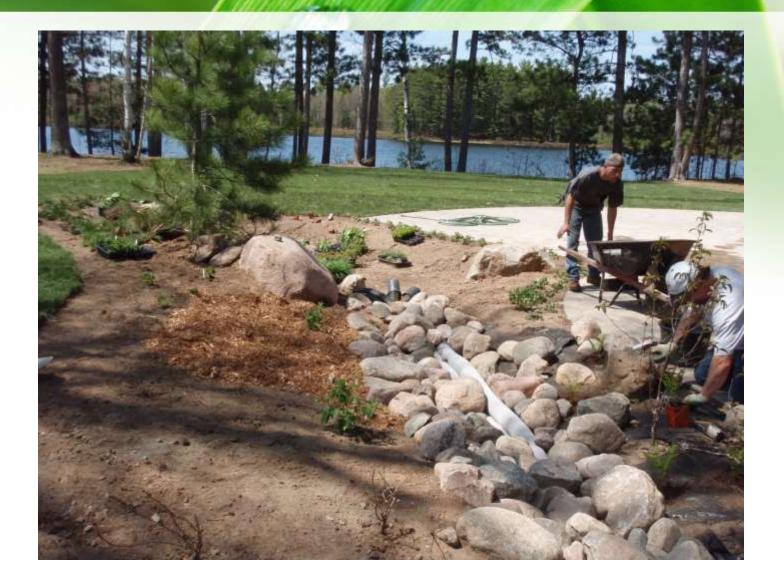




SPLASH WAY



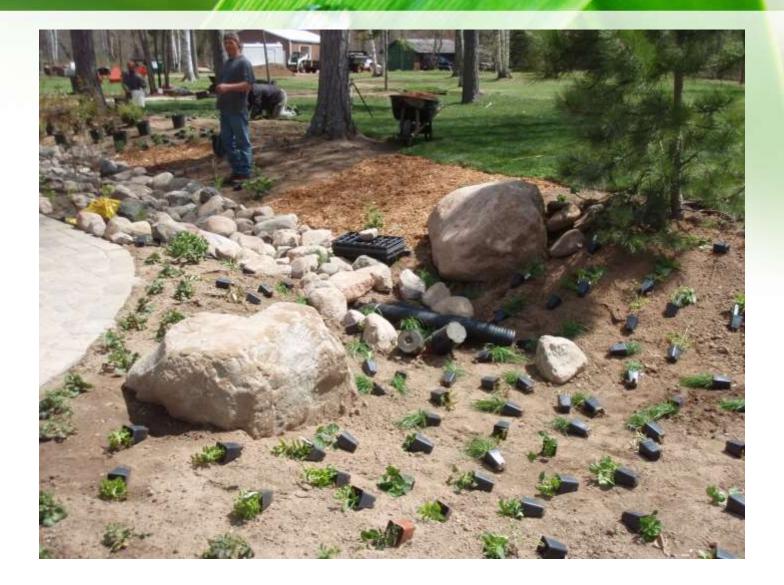
VIEW DOWN TO RAIN GARDEN



TERMINATION OF DRAIN TILE



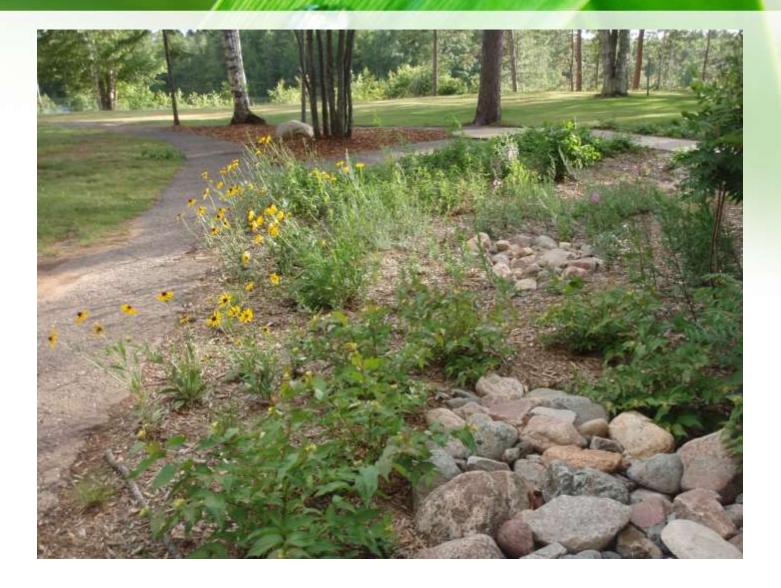
VIEW OF DRAINAGEWAY



INSTALLED IN 2009



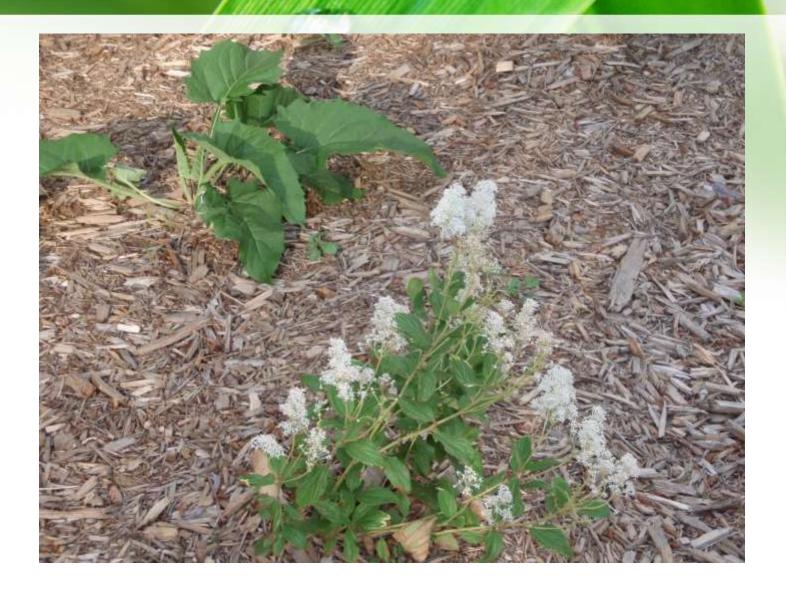
NLDC – AUGUST 2012



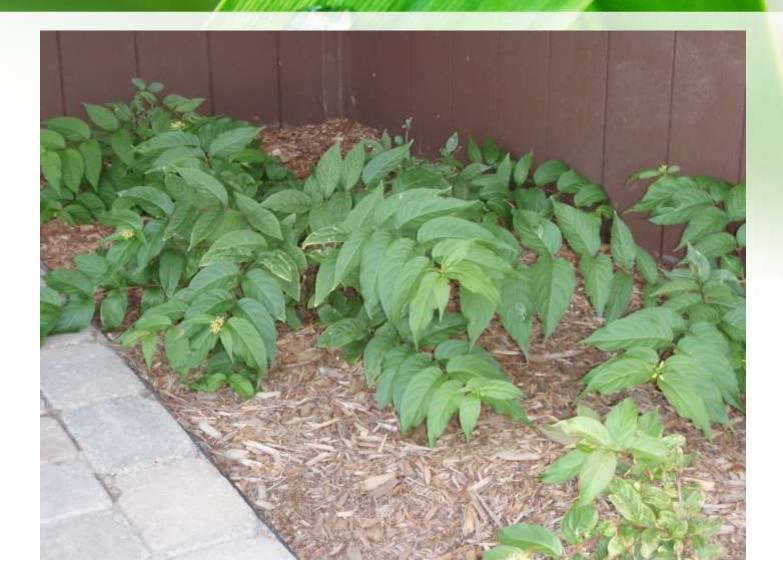




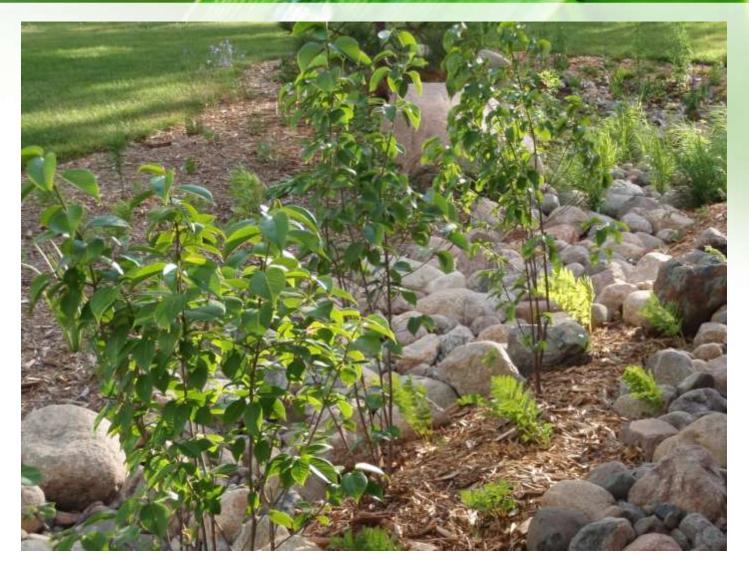
CUP PLANT AND NEW JERSEY TEA



BUSH HONEYSUCKLE

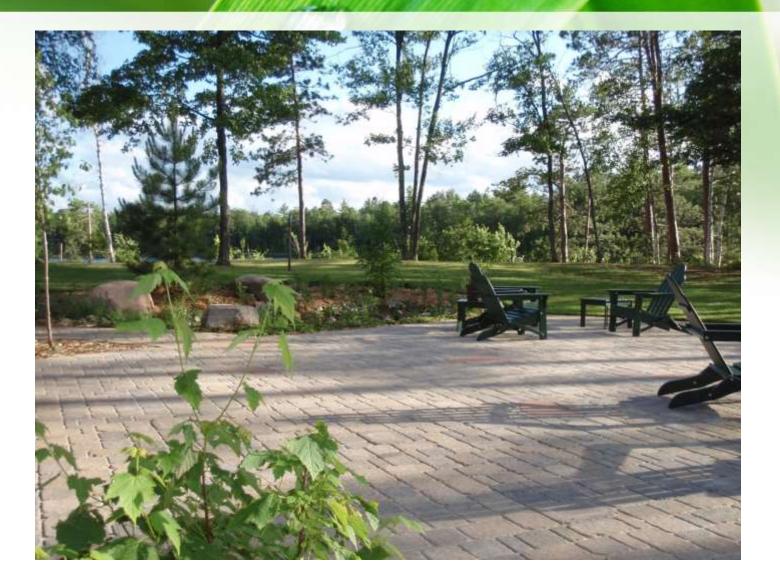


RED-STEM DOGWOOD Cornus sericea baileyii

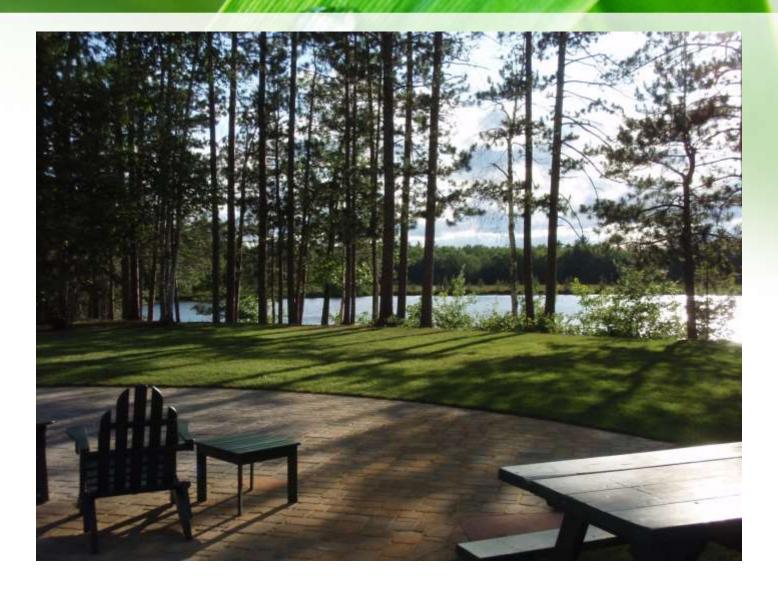




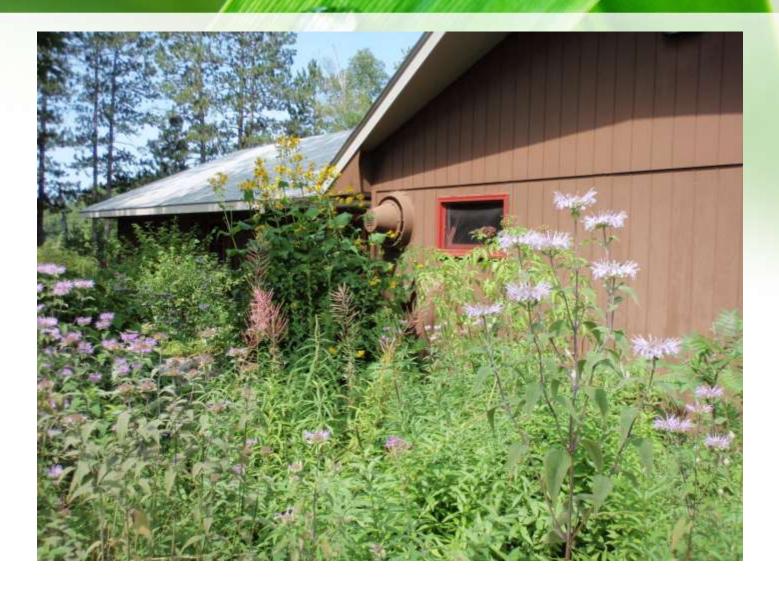
NOTE THAT THERE IS NO BERM



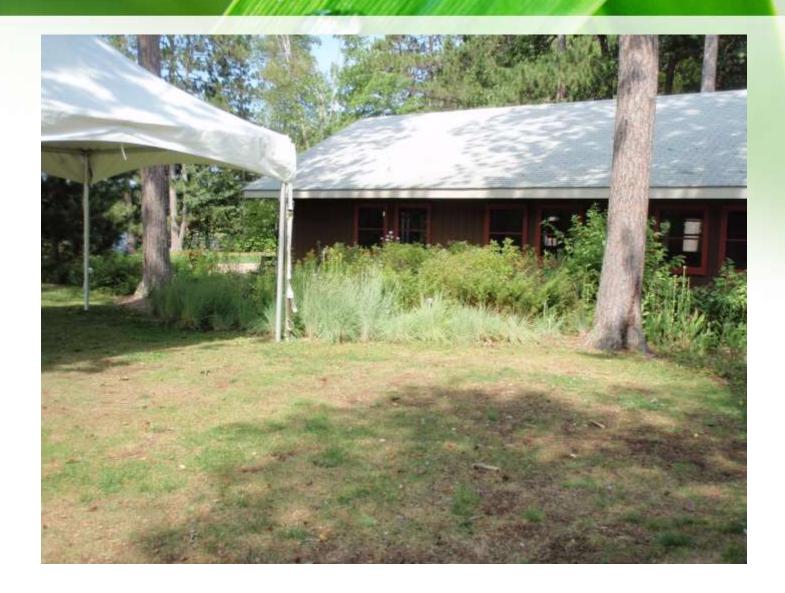
MEGIS PATIO AND VIEW TO LAKE



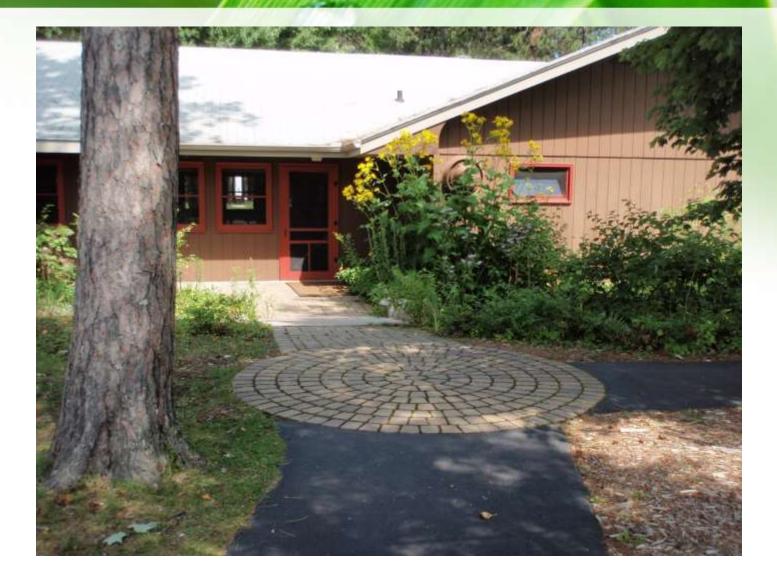
NLDC – ENTRY BEDS 2015



EFFECTIVELY CAPTURING ROOF WATER



CUP PLANT IN 2015



THE RAIN GARDEN AT 6 YEARS



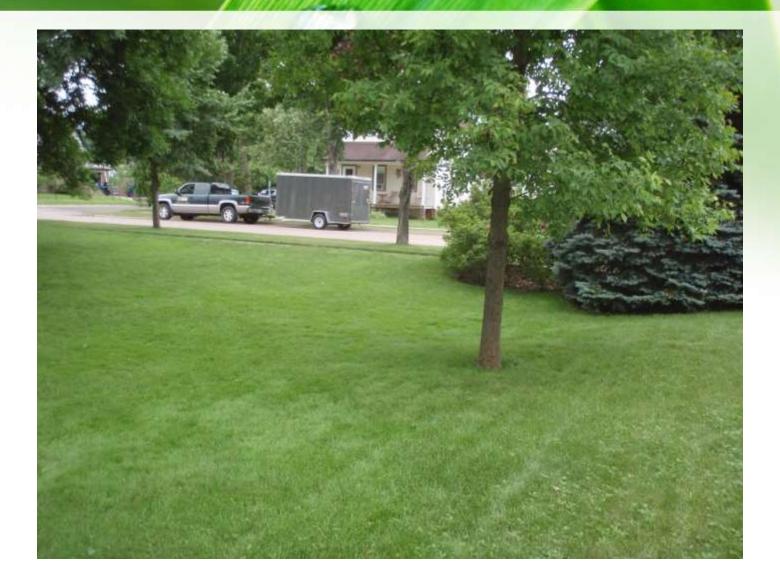


ASHLAND PROJECT 2012



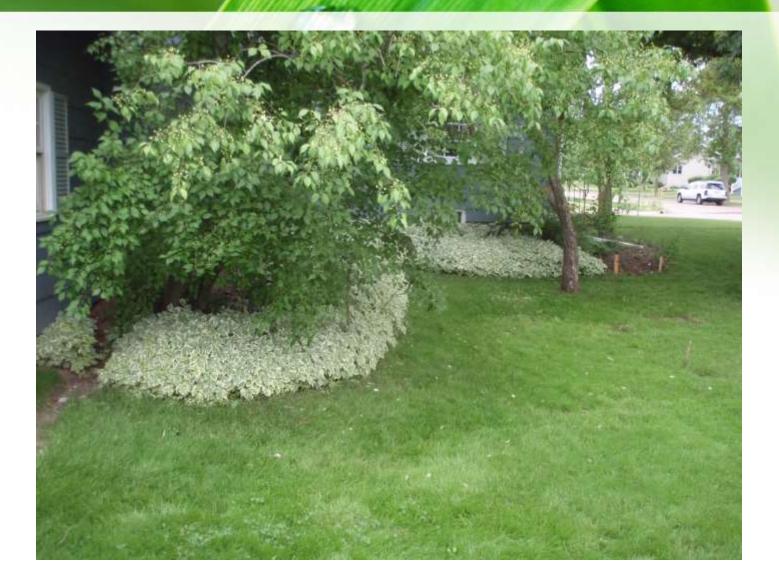


OVERFLOW TO THE STREET

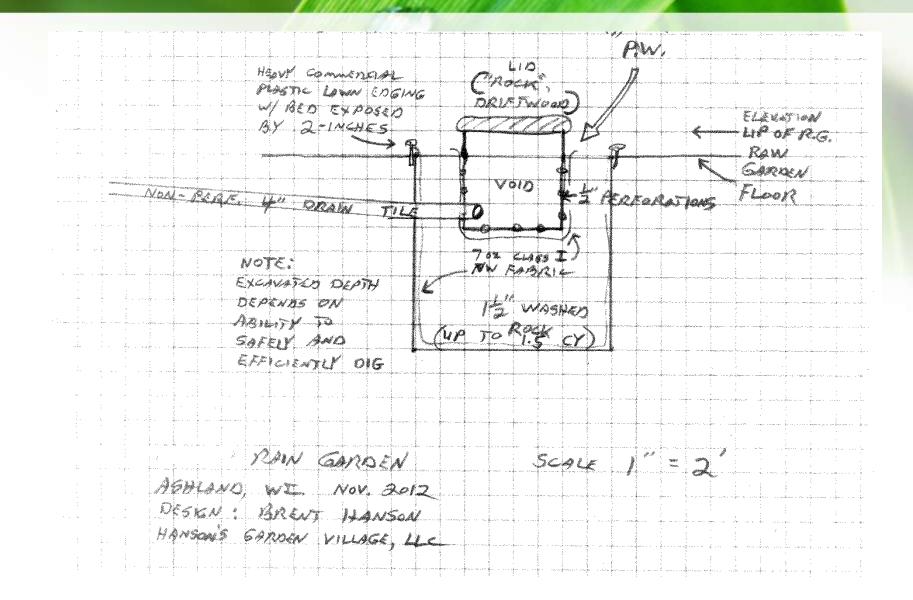




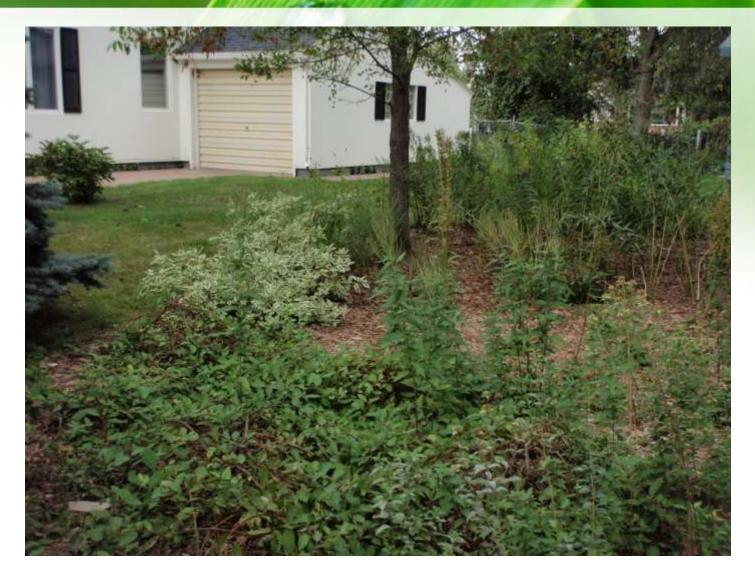
SNOW ON THE MOUNTAIN



PUMP AND INSPECTION WELL



ASHLAND RAIN GARDEN 2 YEARS AFTER INSTALLATION



DOWNSPOUT WAS TURNED TO GARDEN AND PUMP WELL



TUSSOCK SEDGE



SEDGES, SWAMP ASTER AND SPIKENARD



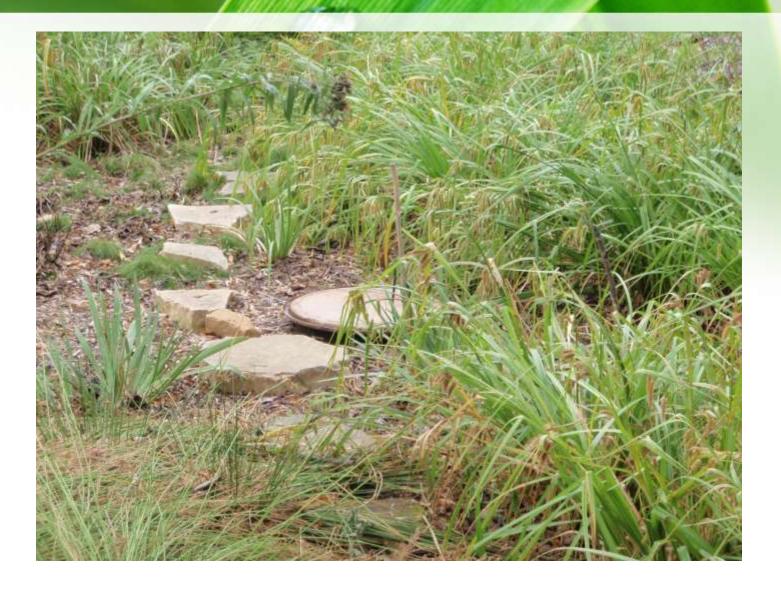
AMERICAN SPIKENARD ARALIA RACEMOSA



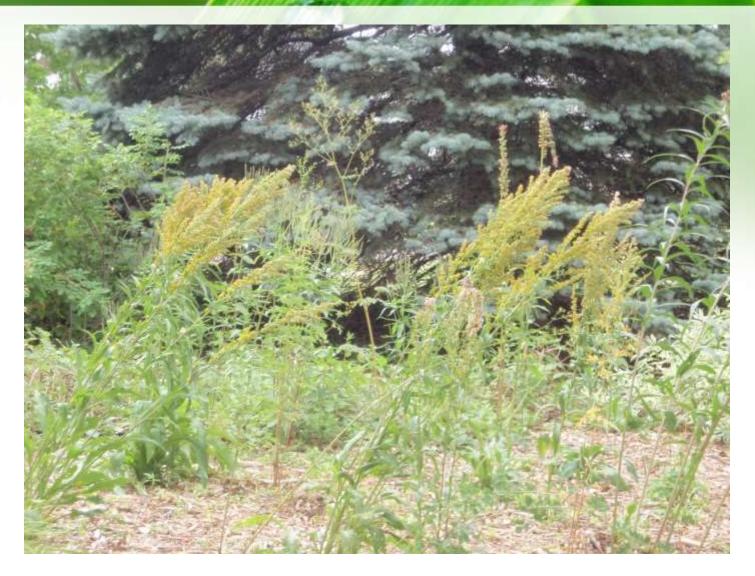
SICKLE SEDGE CAREX CRINITA



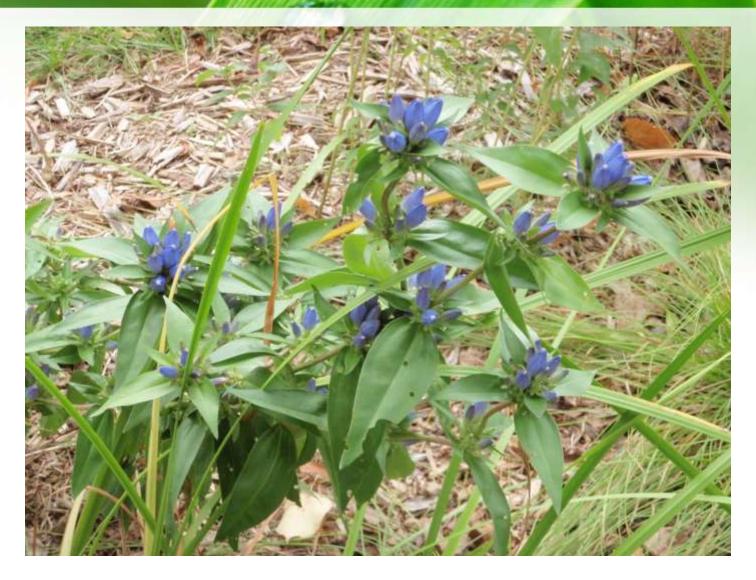
STEPPERS AND PUMP WELL



BOG GOLDENROD SOLIDAGO ULIGINOSA



BOTTLE GENTAIN GENTIANA ANDREWSII



2015 RAIN GARDEN







SPREADING THE COMPOST

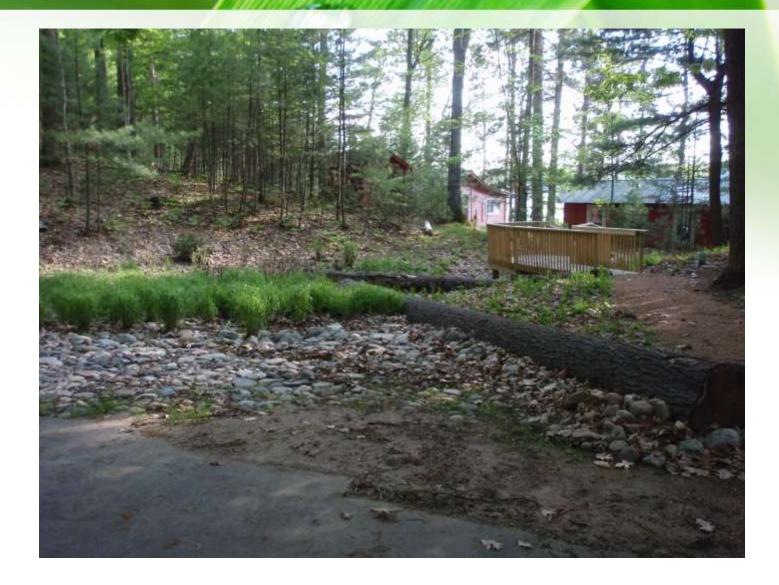




CONTROLLING DRIVEWAY RUN OFF



MOON BEACH CAMP







BEAUTIFUL NATIVES FOR DRY BERMS



Hydrologic Budgets and Biomass Production of Experimental Rain Gardens Comparing Vegetation Treatments

> Sara E. Rouse Nick J. Balster

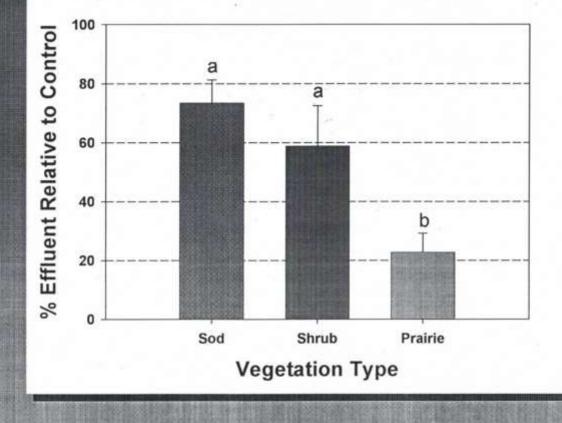
Department of Soil Science University of Wisconsin – Madison

November 2006



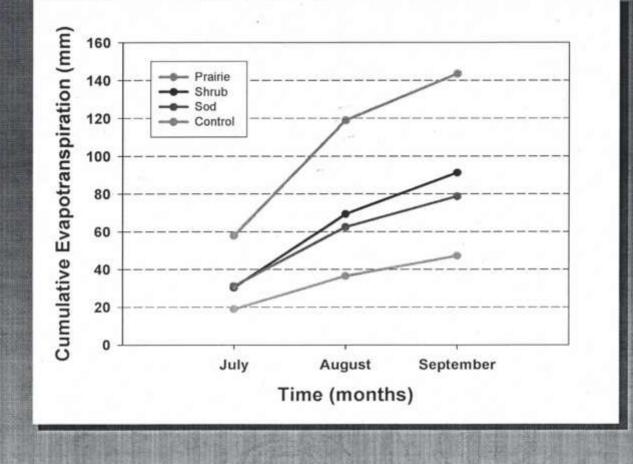


Results Effluent



Significance at p < 0.001

Results Evapotranspiration

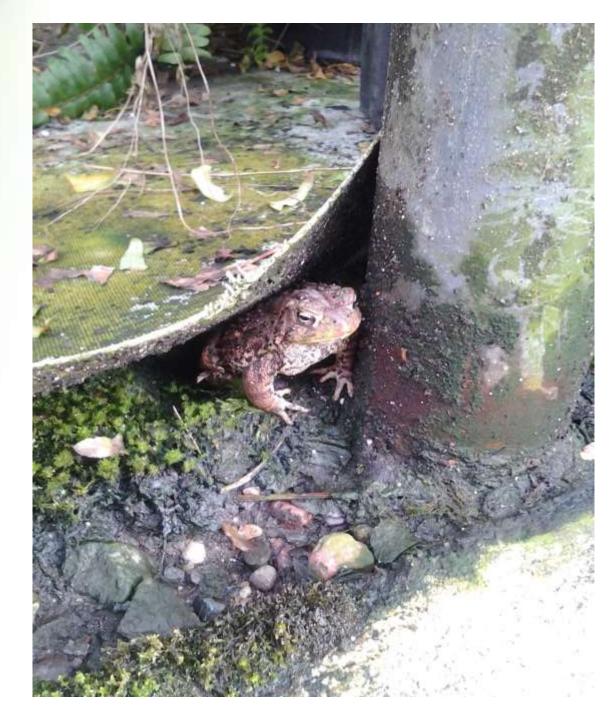


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LET'S TRY TO AVOID THIS...





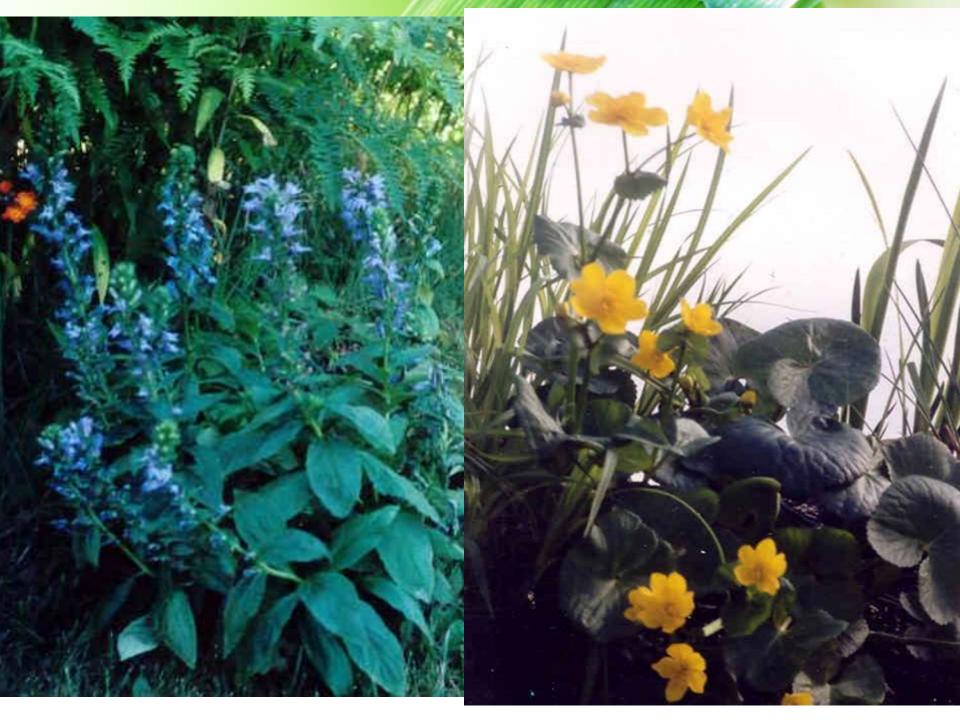














WHO DO YOU "CALL" FOR HELP?



SOURCES FOR INFORMATION

- Search Wisconsin Healthy Lakes Initiative
 - -Fact sheets on:
 - Rain garden
 - Diversion practices
 - Run off guide
 - Grant funding
- Rain Garden Network

-www.raingardennetwork.com

Hanson's Garden Village 2660 County Hwy G Rhinelander, WI 54501 www.hansonsgardenvillage.com



715-365-2929 info@hansonsgardenvillage.com