







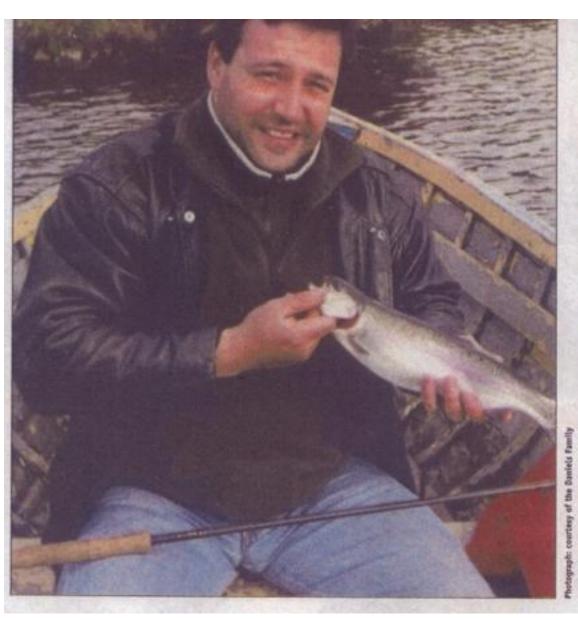


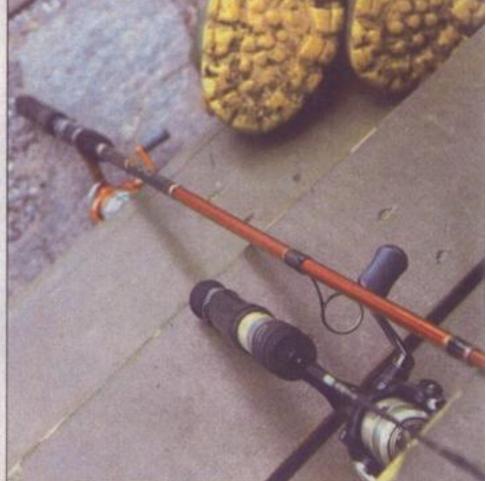






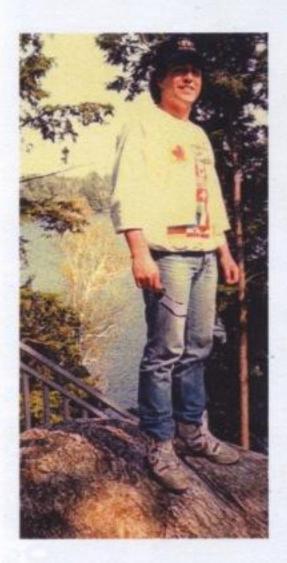
George Daniels, Lake of Bays Association executive Brian Simpson and Fraser Govan, also of the Lake of Bays Association, mo log from the path of the weir they recently built at Norway Point as part of a rehabilitation project to enhance fish spawning





Andrew Daniels proudly holds up a fish he caught during a trip to Scotland in 2000 (left). George Daniels, Jackie Godard and Chris Daniels hold up the conservation ruler and fish poster launched by the fish stewardship (below).

The Andrew Daniels Lake of Bays Fish Stewardship -a living legacy-



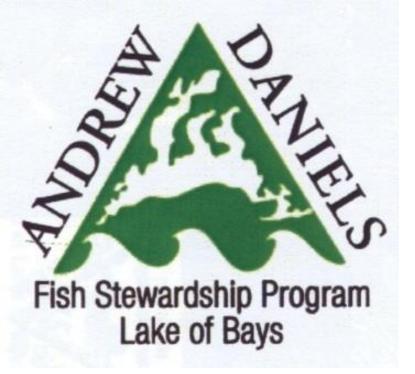
The initiative was born out of the untimely death of 37 year old Andrew Daniels in 2004. "He was our friend and an avid Lake of Bays fisherman,"...said R. Bruce Montgomery Jr. and Bob Ransom. "In his honour and for future generations we have started the Andrew Daniels Lake of Bays Fish Stewardship Program...It is a positive way to remember Andrew while helping to protect something he cared for very much; Lake of Bays."

New conservation fish ruler for Lake of Bays

Lake Trout - Lake of Bays trout are large bodied fish that feed on herring and smelt (the 40 - 55 cm protected	14/ 28/ 28/ 27/ 28/ 29/ 30/ 31/ 32/ 33/ 34/ 35/ 38/ 37/ 38/ 39/ 40/ 41/ 42/ 43/ 44/ 45/ 48/ 47/ 48/ 49/ 50/ 51/ 52/ 53/ 54/ 55/ 56/ 56/ 56/ 56/ 56/ 56/ 56/ 56/ 56		
Brook Trout	*Brook Trout of Lake of Bays are a remnant resource - limit your harvest of all sizese	Contentions (Contentions), "Guide to East Sport Face" (regression for Communities of the Communities of th
Smallmouth Bass - males guard their eggs and fry - experienced males are most successful	→ Young spawners (5-7 years old) → → Prime spawners (8 years and older) →	Ministry of Boston	Following Pages 100 Control Co
		BUTCH TO SERVICE	



FOR GOOD MEASURE: From I to r, Chris Winger (owner of CW Marine), Lake of Bays angler and Daniels family friend David Macdonald, George Daniels and Pete Rumney (owner of Port Cunnington Marina) show the Conservation Fish Ruler created by the Andrew Daniels Fish Stewardship Program.



Recruiting & Building a group of volunteers who are made up of the stream and shoreline landowners, lake and heritage cottagers groups interested and concerned Muskoka citizens.

Community stream and shoreline stewardship means educating and communicating the many benefits of caring for and helping protect fish habitat.

Stewardship means on going encouragement of the volunteers and their dedication to the protection and enhancement of fish habitats..providing supportive tools.

Stewardship also means advancing and influencing fish regeneration by coming together with... Sponsor Partners.

MNR, DFO, Twnshp. of Lake of Bays

The Lake of Bays Assoc. & Heritage Foundation.

The Shoreline Development By Law

Building a Directorate/Management Group..with

a business mind set including, but not limited to, fundraising, budgets, meetings, defined projects with drawings, permits etc

Conservation Fish Ruler

Bench Marks for Fish Habitat Regeneration Lake of Bays Brook Trout spawning study, in 2005. Lake of Bays Rainbow Smelt 2006 study

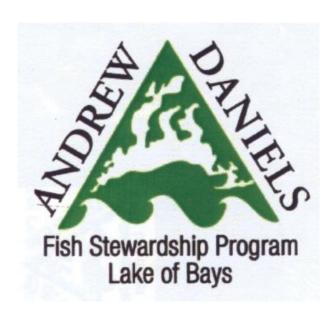
Media Support; Lake of Bays Yearbook & Newsletter, Huntsville Forester, Muskoka Magazine & others.

Support, Join &/or Contribute Brochure 2007

Growing Awareness = Expanded Data Base more folks join the program

Young Stewards of Streams & Shorelines Certificate 2010. Assists High School grads with their "Community Service "score.

Fish Stock Brunch Foundation Fund Raiser July 2011 Huge success..Plan to attend the 2nd Annual July 10/'12





MINISTRY OF NATURAL RESOURCES

Lake of Bays Northern Pike Spawning Observations 2006

For:

The Andrew Daniels Fish Stewardship Program Ontario Ministry of Natural Resources The Township of Lake of Bays

Released June 2006

This follows the 2005 brook trout. & smelt study on Lake of Bays by the same fisheries technology team

By:

Stanley Sutey Accipiter Fish & Wildlife Service **RR#6** Bracebridge, Ontario P1L 1X4 705-646-4556

Marinas, Post Offices & Participating Retailers distribute conservation fish rulers and posters

Port Cunnington Marina Pride of Lake of Bays Marine



South Partage Marina

Morina

C W Marine

Robinsons Dorset

The Beacon





Brook Trout .. Species @ Risk.

Brook Trout are cold water fish species..(10 to 20 degrees C) that need plenty of oxygen to reproduce. There are 3 main species found in Ontario's cold water lakes and rivers. The other 2 are Brown Trout and Rainbow Trout.

"Brook Trout are a part of the ECO System that seem most sensitive to climate change -- said the MNR Fisheries Biologist "

Furthermore Brook Trout are an indicator of how our Lake of Bays, Muskoka Fish Habitat is thriving.

Lake of Bays is significant in that it has over half a dozen Stream Tributaries that support the Brook Trout Population.

Lake of Bays is one of a few large Lakes outside of Algonquin Park that has a viable Brook Trout population.

We don't want them to be comprised. Brook Trout are a vital component of our Heritage and Value to Lake of Bays and our larger aquatic system.

So lets look at how we are helping manage this resource with MNR, The Township of L. of Bays, DFO, L'o'Bays Assoc. Heritage Fndtns.



www.ofah.org/stream

Produced by the Community Stream Steward Program; a multi-partner initiative focused on community stream stewardship development & practices

Trout Tidbits

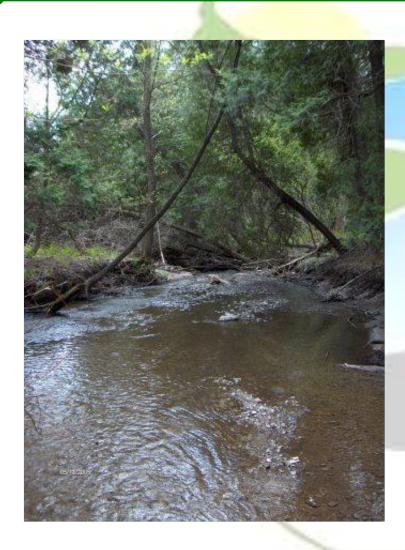
Trout Habitat Enhancement



Courtesy of P.N.N.L.

Habitat Features

Stream and Wetland Ecosystems





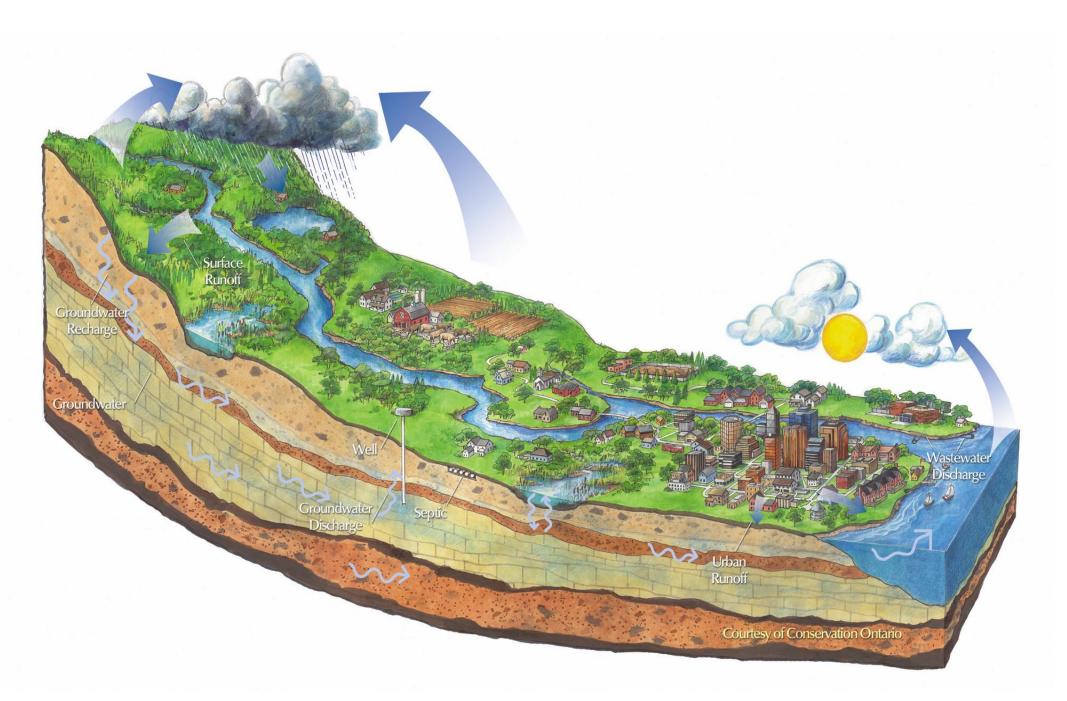


Headwaters

- •Where a stream originates
- Depends on landscape
- Wetland, spring, pond complexes AND slope

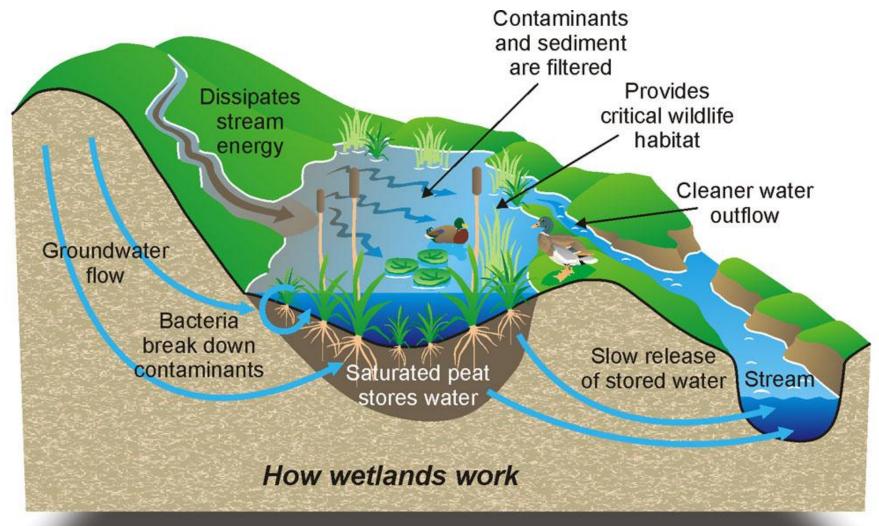




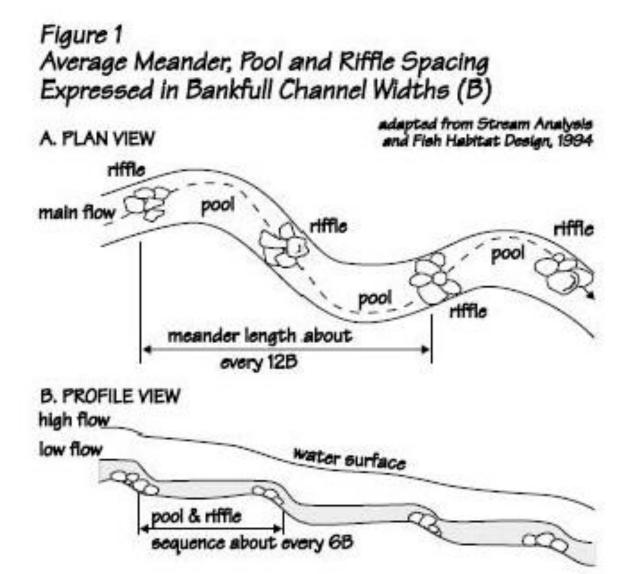


Recharge **Discharge**





Beneath the Surface





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The characteristics of coldwater streams...

Coldwater streams are, as their name implies, cold year-round. In southern Ontario, they are dependent upon clean and cold groundwater that originates from glacial formations such as moraines. (like

Coldwater Streams



Coldwater Stream Inhabitants



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What is a Riparian Buffer?

Riparian Buffers



What are the Benefits of Riparian Buffers?

A healthy riparian buffer will...

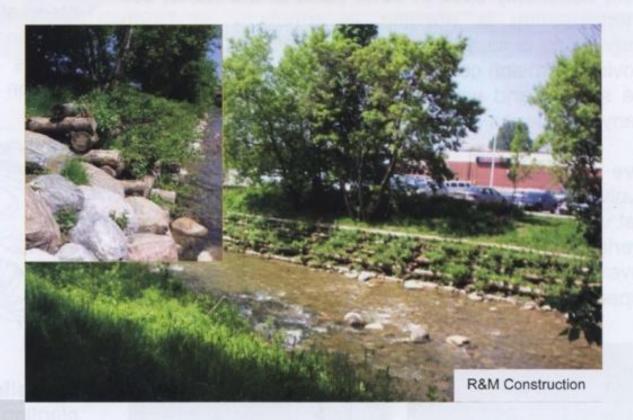
stream

www.ofah.org/stream

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Bioengineering vs.
"Hard" Engineering

Bank Stabilization



Sedimentation

Stream Monitoring Techniques



Temperature Monitoring

Water temperature can be recorded manually or by using programmed digital recorders.

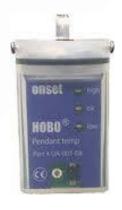
A temperature logger is a device use to record and store real time data.

- Simple To Use
- Long Lasting
- Valuable Data
- Habitat
- Species
- Can Identify:
- Problem Areas
- Groundwater Upwellings









Why Use Benthos As Bioindicators?

Benthos are excellent indicators of aquatic ecosystem health.

- Abundant and widespread
- Nobody cares (No permit required)
- Easily and inexpensively sampled
- Sedentary (unlike fish)
- •Long lived (months to years)
- Many species with different tolerances
- •Respond to both water and sediment chemistry
- Readily archived for future reference
- Provide early-warning



Stream benthos collection in the Raisin River watershed

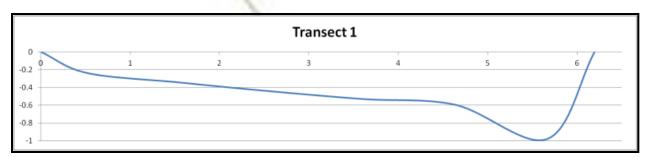
(Rosenberg & Resh 1993, 1996; Mackie 2001)

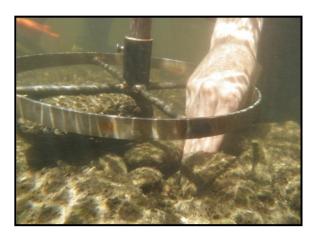
Channel Morphology

Gathers data on the shape and condition of the channel using sampling transects.

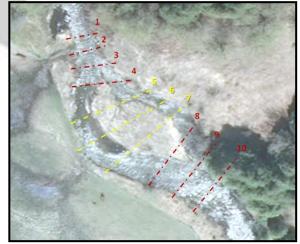
Looks at:

- Water depth
- Direction and Volume of Flow
- Substrate
- Fish Cover
- Aquatic Vegetation
- Bank Slopes
- Bank Vegetation
- Undercut Banks













Restoration Project July 5, 2010 Volunteers L to R

David MacDonald, Chris Daniels, Brian MacKenzie, Ben Boivin (kneeling)

Young Stewards: Trey Montgomery, Thomas Ransom, Collin Montgomery,

Max Montgomery, Egan Montgomery

Standing by sign: Brock Montgomery, R. Bruce Montgomery Jr., George Daniels (kneeling)

Harry Edgar - not shown, Linda Keown - not shown



Rabbits Bay Restoration Project with Volunteers - July 5, 2010



Rabbits Bay Restoration Project with Volunteers - July 5, 2010



Rabbits Bay Restoration Project with Volunteers - July 5, 2010



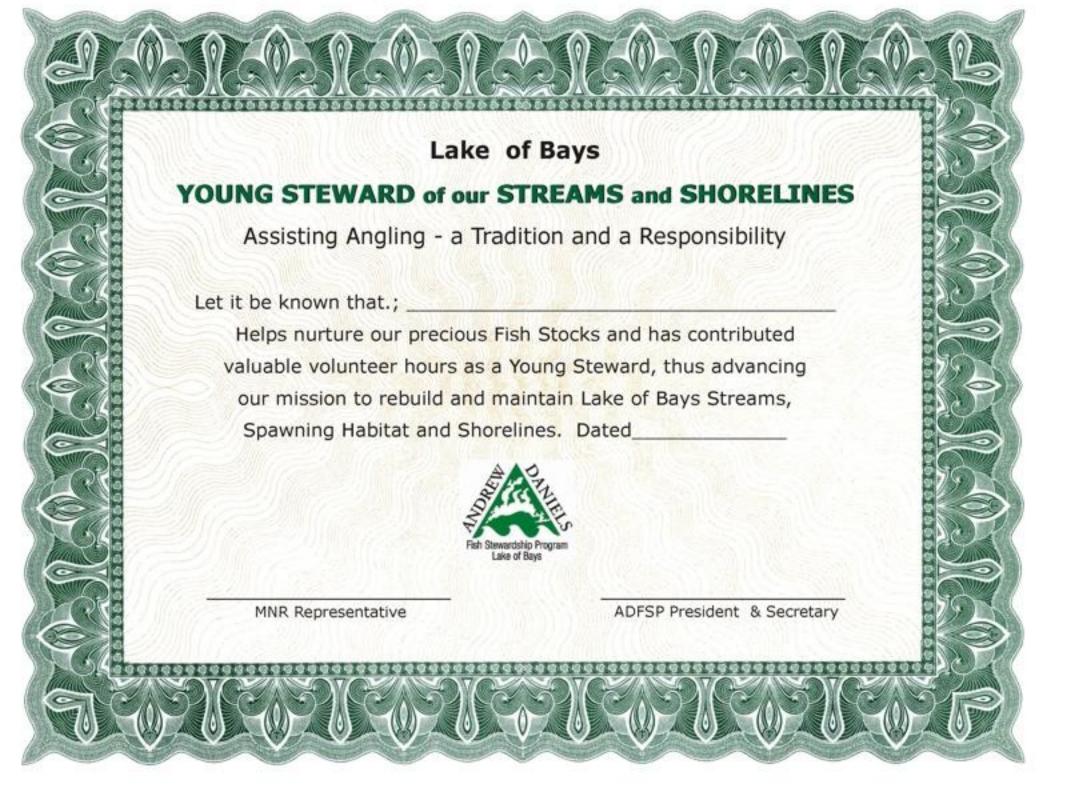
Rabbits Bay Restoration Project with Volunteers - July 5, 2010



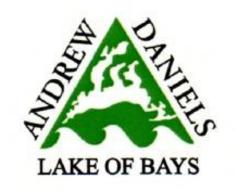
Steve Scholten, MNR Fisheries Biologist with Megan



Armour Stone Stream Protection, Back of Parking Area



Rabbits Bay Park & Boat Ramp A Protected Stream & Shoreline Habitat



Memorial Fish Stewardship Program



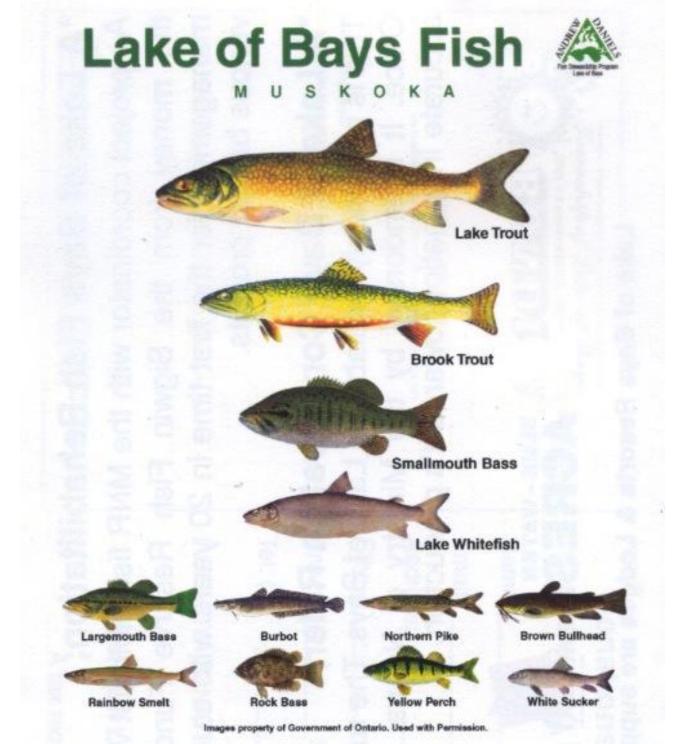
Supporters:

- Ministry of Natural Resources
- The Edgar Family
- The Daniels Family

- Lake of Bays Association
- Community Volunteers

Ben Boivin, District Councillor / Janet Peake, Mayor

www.lakeofbays.on.ca



Nurturing our Precious Fish Stocks

A Sustainable fish population at your dock's doorstep is good for the economy and enhances the value of your property.

Fish are "the canaries in the mine" of water quality health.