

2012



Water

The Future of the Source

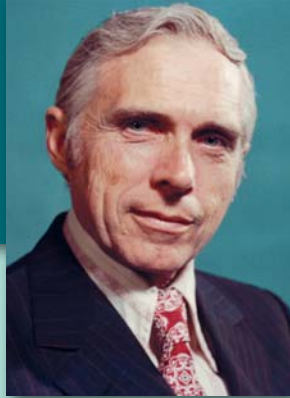


Conservation  
ONTARIO

UNIVERSITY  
of GUELPH



A.D. LATORNELL  
CONSERVATION SYMPOSIUM



**Arthur D. Latornell**  
FORWARD THINKER &  
DEDICATED CONSERVATIONIST  
(1923-1991)

The theme of this 2012 calendar, **Water: The Future of the Source**, demonstrates the importance of water to all aspects of our lives. It is critical now more than ever, for us to understand the ways we can help to ensure there is a safe and reliable source of water for all our uses now and in the future.

# Water: The Future of the Source



This year's calendar explores the state of Ontario's water as well as some of the issues impacting it and what we can do, as individuals, to help protect and conserve our most precious natural resource. It is produced in conjunction with the A.D. Latornell Conservation Symposium, a popular annual conference co-hosted by Conservation Ontario and the University of Guelph.

Included with each month of this calendar, you will find a QR code which, when scanned with your mobile device, will lead you to valuable information, videos and other resources that will help you further explore water issues in Ontario.

**How to Scan a QR Code:**  
Many Android, Nokia, and Blackberry phones come with QR Code readers pre-installed. If you have an older phone you may need to download a QR scanning application – most are free.  
Hold your phone camera in front of the QR code to scan it.

**Connecting Youth to Nature –** Ontario Nature's 'Nature Guardians Program' provides young people from diverse backgrounds with opportunities to experience and connect with nature. The program's Youth Council helps plan activities and set program direction.



# December 2011

NOVEMBER							JANUARY						
SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY	SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
		1	2	3	4	5	1	2	3	4	5	6	7
6	7	8	9	10	11	12	8	9	10	11	12	13	14
13	14	15	16	17	18	19	15	16	17	18	19	20	21
20	21	22	23	24	25	26	22	23	24	25	26	27	28
27	28	29	30				29	30	31				

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
				1	2 ☾	3
4	5	6	7	8	9	10 ☉
11	12	13	14	15	16	17
18 ☾	19	20	21	22	23	24 ●
				Winter Begins		Christmas Eve
25	26	27	28	29	30	31
Christmas Day	Boxing Day					New Year's Eve

● NEW MOON  
 ☾ FIRST QUARTER  
 ☉ FULL MOON  
 ☽ LAST QUARTER



# Why Protect the Source?

Ontario's drinking water comes from lakes, rivers, streams, or groundwater sources located across the province. In order to make sure we have enough clean water for drinking and other uses, we need to protect these sources by managing the influences on them.

Drinking water is best protected by taking a multiple barrier approach, which includes taking actions to prevent contamination of our water sources, using adequate water treatment and distribution systems, water testing, and training of water managers.

## Planning to Protect the Source

Following the implementation of the *Clean Water Act* (2006), 19 Source Protection Committees were established across the Province in 2007. These Committees include representation from municipalities, agriculture, industry, business, community groups, First Nations, and the public to oversee the development of watershed-based Source Protection Plans.

Source Protection Plans will be available for public viewing in 2012 and implementation of the Plans will begin in 2013. For more information about the Source Protection Planning process visit [http://www.conservation-ontario.on.ca/source\\_protection/documents/DSWPPlanningProcessFactSheet\\_000.pdf](http://www.conservation-ontario.on.ca/source_protection/documents/DSWPPlanningProcessFactSheet_000.pdf)

**Want to learn more?** Watch these great Source Protection videos courtesy of Hamilton Conservation Authority <http://www.conservationhamilton.ca/protecting-water/hca/programs-services/protecting-water/source-water-protection-video>



Photo by Johnathan VanBilsen



What's a 'Multi-Barrier' approach?

# January 2012

DECEMBER							FEBRUARY						
SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY	SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
				1	2	3				1	2	3	4
4	5	6	7	8	9	10	5	6	7	8	9	10	11
11	12	13	14	15	16	17	12	13	14	15	16	17	18
18	19	20	21	22	23	24	19	20	21	22	23	24	25
25	26	27	28	29	30	31	26	27	28	29			

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
1 ●  New Year's Day	2	3	4	5	6	7
8	9 ○	10	11	12	13	14
15	16 ●	17	18	19	20	21
22	23 ●	24	25	26	27	28
29	30 ●	31				

● NEW MOON  
 ◐ FIRST QUARTER  
 ○ FULL MOON  
 ◑ LAST QUARTER

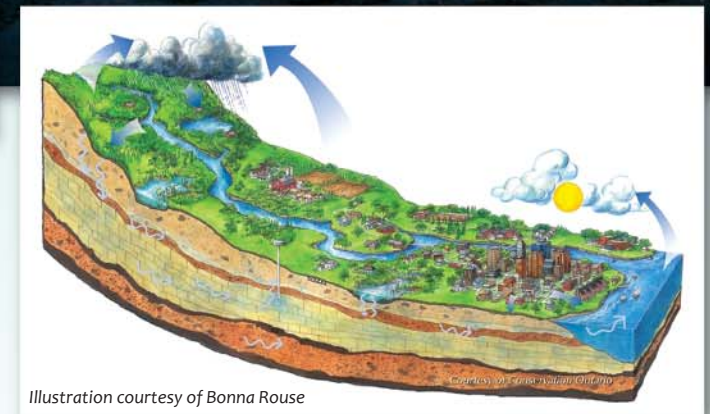
# Water: What we have is all we get

## The Water Cycle

All of the water we have and will ever have is in a constant motion, moving around the planet as it changes from solid to liquid to vapour. It starts as precipitation (like rain and snow) which falls and drains into lakes and streams, as well as groundwater, eventually flowing into the ocean. The sun's heat then causes water to evaporate and return into the atmosphere to form clouds.

## What is a Watershed?

No matter where you live, the city or the country, Canada or beyond, you are living in a watershed. A watershed is an area of land that catches rain and snow and drains or seeps into a body of water such as a river, pond, groundwater, lake or ocean. Watersheds can cross municipal, provincial, and even international borders and come in all shapes and sizes.



**Protect Your Watershed** – Check out this great website managed by Canadian Geographic that helps you learn about Canadian watersheds, how you can get informed and get involved in your own watershed, and about water issues relevant to your area.

# February 2012

JANUARY							MARCH						
SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY	SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
1	2	3	4	5	6	7					1	2	3
8	9	10	11	12	13	14	4	5	6	7	8	9	10
15	16	17	18	19	20	21	11	12	13	14	15	16	17
22	23	24	25	26	27	28	18	19	20	21	22	23	24
29	30	31					25	26	27	28	29	30	31

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
			1	2	3	4
				Ground Hog Day World Wetlands Day		
5	6	7 ○	8	9	10	11
12	13	14 ●	15	16	17	18
		Valentine's Day				Ontario Family Winter Fishing Weekend <a href="http://www.familyfishingweekend.com">www.familyfishingweekend.com</a>
19	20	21 ●	22	23	24	25
	Family Day Heritage Day					
26	27	28	29 ●			

● NEW MOON  
 ◐ FIRST QUARTER  
 ○ FULL MOON  
 ◑ LAST QUARTER



# Protect water – Protect your future!



Photo by Bonna Rouse

We are all stewards of the earth and as such it is everyone's job to ensure that we have a safe and reliable supply of water now and heading into the future. There are many simple ways that you can conserve water and reduce water pollution in your home and outdoors.

## Protecting water in your Home

- Only turn on the dishwasher and laundry machine when you have a full load
- Avoid using toxic cleaners, and use more natural alternatives such as baking powder, vinegar, and lemon
- Install aerators on all taps, switch to a low-flow toilet, and purchase a water saving shower head

## Protecting water Outdoors

- Use rain barrels to collect rain water and use this water as an alternative to turning on the hose to maintain your garden
- Keep lawn watering to a minimum. Lawn watering can account for up to 50% of home water use 2-3 cm of water per week should be adequate
- Never put ANYTHING down a storm drain. Storm drains lead directly to our streams and lakes – the water is not treated

**Teacher Alert!** We found a GREAT kids game about water conservation – <http://kids.nationalgeographic.com/kids/games/puzzlesquizzes/water-wiz/>



Photo by Bonna Rouse



Photo by Ron Pitts



Have you met a Green Hero? Tragically Hip frontman Gord Downie is dedicated to protecting Ontario's water and our future. To learn about more great Green Heroes like Gord, visit [www.greenheroes.tv/home](http://www.greenheroes.tv/home)



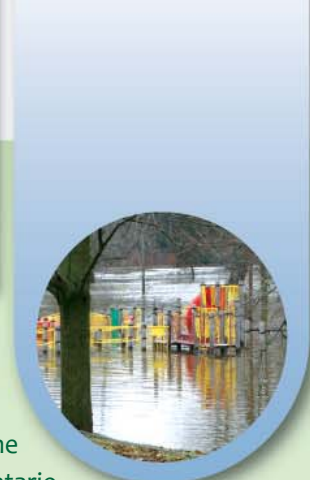
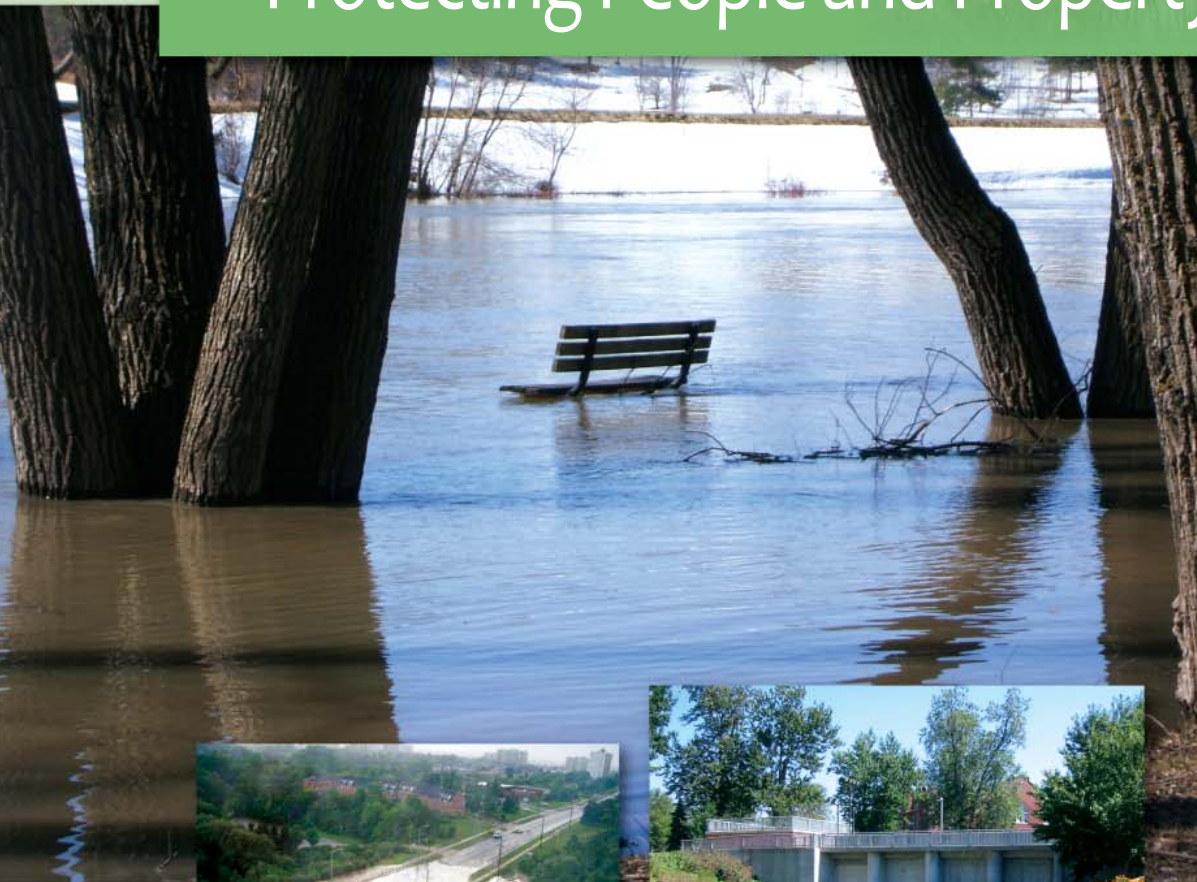
# March 2012

FEBRUARY							APRIL						
SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY	SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
			1	2	3	4	1	2	3	4	5	6	7
5	6	7	8	9	10	11	8	9	10	11	12	13	14
12	13	14	15	16	17	18	15	16	17	18	19	20	21
19	20	21	22	23	24	25	22	23	24	25	26	27	28
26	27	28	29				29	30					

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
				1	2	3
4	5	6	7	8 ○	9	10
11	12	13	14 ◐	15	16	17
18	19	20	21	22 ●	23	24 St. Patrick's Day
25	26	27 Spring Begins	28	29 World Water Day <a href="http://www.worldwaterday.com">www.worldwaterday.com</a>	30 ◑	31 Earth Hour <a href="http://www.earthhour.org">www.earthhour.org</a>

● NEW MOON  
 ◐ FIRST QUARTER  
 ○ FULL MOON  
 ◑ LAST QUARTER

# Flood Management – Protecting People and Property



The most severe flooding on record in Ontario occurred in October 1954 when Hurricane Hazel passed into Southern Ontario.

Eighty-one people died and damages were estimated at over \$180 million. Following this devastating flood, a flood forecasting and warning system was established in the province, and a committee comprised of Conservation Authorities, the Ontario Ministry of Natural Resources, and Environment Canada was created to provide advice and training.

Conservation Authorities, alone, prevent over \$100 million in flood and erosion damages each year. Flood prevention programs and services offered by Conservation Authorities include:

- Monitoring watershed conditions
- Modeling and forecasting flooding
- Issuing flood warnings
- Regulating development in flood prone areas
- Providing planning support and advice to municipalities
- Protecting wetlands and forests that help to control flooding
- Educating the public about flooding hazards



Photo by AJ Willison



# April 2012

MARCH							MAY						
SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY	SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
				1	2	3			1	2	3	4	5
4	5	6	7	8	9	10	6	7	8	9	10	11	12
11	12	13	14	15	16	17	13	14	15	16	17	18	19
18	19	20	21	22	23	24	20	21	22	23	24	25	26
25	26	27	28	29	30	31	27	28	29	30	31		

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
1 April Fool's Day	2	3	4	5	6 ○ Good Friday	7
8 Easter Sunday	9 Easter Monday	10 National Wildlife Week <a href="http://www.nationalwildlifeweek.com">www.nationalwildlifeweek.com</a>	11	12	13 ◐	14
15	16	17	18	19	20	21 ●
22 Earth Day <a href="http://www.earthday.org">www.earthday.org</a>	23 Pitch In Canada Week <a href="http://www.pitch-in.ca">www.pitch-in.ca</a>	24	25	26	27	28
29 ◑	30					

● NEW MOON   ◑ FIRST QUARTER   ○ FULL MOON   ◐ LAST QUARTER



# Biodiversity in the Water



## What is Aquatic Biodiversity?

Biodiversity is the measure of the number and different types of species found in an ecosystem. We share the planet with as many as 13 million different living species including plants, animals, fish, insects and bacteria. Lake, river, stream, and wetland ecosystems sustain an abundance of life and are crucial to human health, our economy, and the environment.

## Humans are the biggest threat to biodiversity

Things like habitat loss, water contamination, population growth, and climate change are examples of human impacts that are contributing to loss of biodiversity around the globe- including aquatic biodiversity. In Ontario alone, there are currently 21 fish and 8 mussel species designated as 'at risk'.

Ontario's reptiles and amphibians are becoming increasingly rare. In fact, three quarters (18 of 24) of Ontario's reptile species are listed as species at risk. Reptiles and amphibians are collectively known as herpetofauna and are a unique part of Ontario's biodiversity.

For more information on at risk aquatic species in Ontario visit [www.cosewic.gc.ca](http://www.cosewic.gc.ca)

*Snakes, turtles and frogs are becoming increasingly rare in Ontario with three quarters of reptiles listed as species at risk! You can help support these imperiled creatures by participating in Ontario Nature's Reptile and Amphibian Atlas Project, which provides extensive data about where the many reptiles and amphibians that make their home in Ontario can be found.*



Photo by Bonnie Rouse



# May 2012

APRIL							JUNE						
SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY	SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
1	2	3	4	5	6	7						1	2
8	9	10	11	12	13	14	3	4	5	6	7	8	9
15	16	17	18	19	20	21	10	11	12	13	14	15	16
22	23	24	25	26	27	28	17	18	19	20	21	22	23
29	30						24	25	26	27	28	29	30

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
		1	2	3	4	5 ○
			Compost Awareness Week			
6	7	8	9	10	11	12 ●
						International Migratory Bird Day <a href="http://www.birdday.org">www.birdday.org</a>
13	14	15	16	17	18	19
Mother's Day						
20 ●	21	22	23	24	25	26
	Victoria Day	International Day for Biodiversity <a href="http://www.cbd.int/ibd">www.cbd.int/ibd</a>				
27	28 ●	29	30	31		

● NEW MOON   ● FIRST QUARTER   ○ FULL MOON   ● LAST QUARTER



# Wetlands are Dynamic!

Swamps, Marshes, Bogs, Fens... whatever you like to call them, wetlands are beneficial to our environment, to our economy, and to the health of Ontarians.

## Wetlands:

- Sustain more types of life than any other ecosystem – as much as many tropical forests
- Improve water quality, help us to adapt to climate change, as well as protect important plant, animal and water resources
- Contribute to the economy of Ontario through recreation and harvesting activities
- Store and release water, recharge groundwater, help reduce the impact of floods, and prevent erosion

During the past 200 years, over two-thirds of southern Ontario's original wetland area has been lost. Factors such as water level fluctuations, invasive species, physical alteration, contaminated runoff, pollution, and climate change contribute to wetland degradation.



Check out this great Canadian Wildlife Federation video all about wetlands!





# June 2012

MAY							JULY						
SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY	SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
		1	2	3	4	5	1	2	3	4	5	6	7
6	7	8	9	10	11	12	8	9	10	11	12	13	14
13	14	15	16	17	18	19	15	16	17	18	19	20	21
20	21	22	23	24	25	26	22	23	24	25	26	27	28
27	28	29	30	31			29	30	31				

SUNDAY

MONDAY

TUESDAY

WEDNESDAY

THURSDAY

FRIDAY

SATURDAY

						1	2
							International Trails Day <a href="http://www.tctrails.ca/trails%20days.php">www.tctrails.ca/trails%20days.php</a>
3	4 ○	5	6	7	8	9	
Canadian Environment Week		World Environment Day <a href="http://www.unep.org/wed">www.unep.org/wed</a>	Clean Air Day <a href="http://www.chrs.ca">www.chrs.ca</a>		World Oceans Day <a href="http://www.worldoceansday.org">www.worldoceansday.org</a>		
10	11 ◐	12	13	14	15	16	
Canadian Heritage Rivers Day <a href="http://www.chrs.ca">www.chrs.ca</a>							
17	18	19 ●	20	21	22	23	
Father's Day			Summer Begins				
24	25	26 ◑	27	28	29	30	
	St. John Baptist Day						

● NEW MOON   ◐ FIRST QUARTER   ○ FULL MOON   ◑ LAST QUARTER

# Step Into Nature – and make a splash!

Close to home and across the province, Ontario's 36 Conservation Authorities own and protect over 145,000 hectares of natural lands and offer more than 270 Conservation Areas for you to explore and enjoy.

**Explore:** Many Conservation Areas feature lakes, rivers, reservoirs, and even pools that provide visitors with such water-based activities as swimming, boating/sailing/paddling, aquatic wildlife viewing and fishing. Of course, you can also stay on dry land and enjoy activities such as hiking, cycling, skiing, and camping.

**Learn:** Because protecting drinking water and watersheds is so important to Conservation Authorities, many Conservation Areas have educational programs, interpretive centers, and museums that help visitors learn about the importance of water to our daily lives.

**Enjoy:** From waterfalls to beaches, sand dunes to wetlands, Ontario's Conservation Areas showcase some of the province's most breath-taking natural features.

Head outside and enjoy a Conservation Area – visit [www.ontarioconservationareas.ca](http://www.ontarioconservationareas.ca) for more information.



Photo by Chris Mayne, second place winner in Conservation Ontario 2009 Photo Contest



Want to Explore? Download or order a copy of our Guide to Conservation Areas in Ontario.

# July 2012

JUNE							AUGUST						
SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY	SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
					1	2				1	2	3	4
3	4	5	6	7	8	9	5	6	7	8	9	10	11
10	11	12	13	14	15	16	12	13	14	15	16	17	18
17	18	19	20	21	22	23	19	20	21	22	23	24	25
24	25	26	27	28	29	30	26	27	28	29	30	31	

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
1  Canada Day	2	3 ○	4	5	6	7  Family Fishing Week <a href="http://www.familyfishingweek.com">www.familyfishingweek.com</a>
8	9	10 ◐	11	12	13	14
15	16	17	18	19 ●	20	21  Canada Parks Day <a href="http://www.parksday.ca/eng/intro.html">www.parksday.ca/eng/intro.html</a>
22	23	24	25	26 ◑	27	28
29	30	31				

● NEW MOON   ◐ FIRST QUARTER   ○ FULL MOON   ◑ LAST QUARTER



# Climate Change – Changing Water

In Ontario, climate change has already impacted our water resources, and its effects are expected to increase in the future.

Some of the impacts climate change has had and will continue to have on our water are:

- Rising temperatures and changing precipitation patterns which create more drought conditions and more severe weather
- Increased flood and erosion problems caused by extreme rainfalls
- Lowered water levels in lakes and rivers which warms surface water and decreases flow
- Dried out wetlands which can impact biodiversity and alter important habitats

**A climate change time machine?** Yep! Check it out here – [http://climate.nasa.gov/kids/ClimateTimeMachine/climateTimeMachine\\_kids.cfm](http://climate.nasa.gov/kids/ClimateTimeMachine/climateTimeMachine_kids.cfm)



*Talk about extreme weather! See the impacts of an F3 tornado in Goderich ON in 2011 (video is 15 mins).*

# August 2012

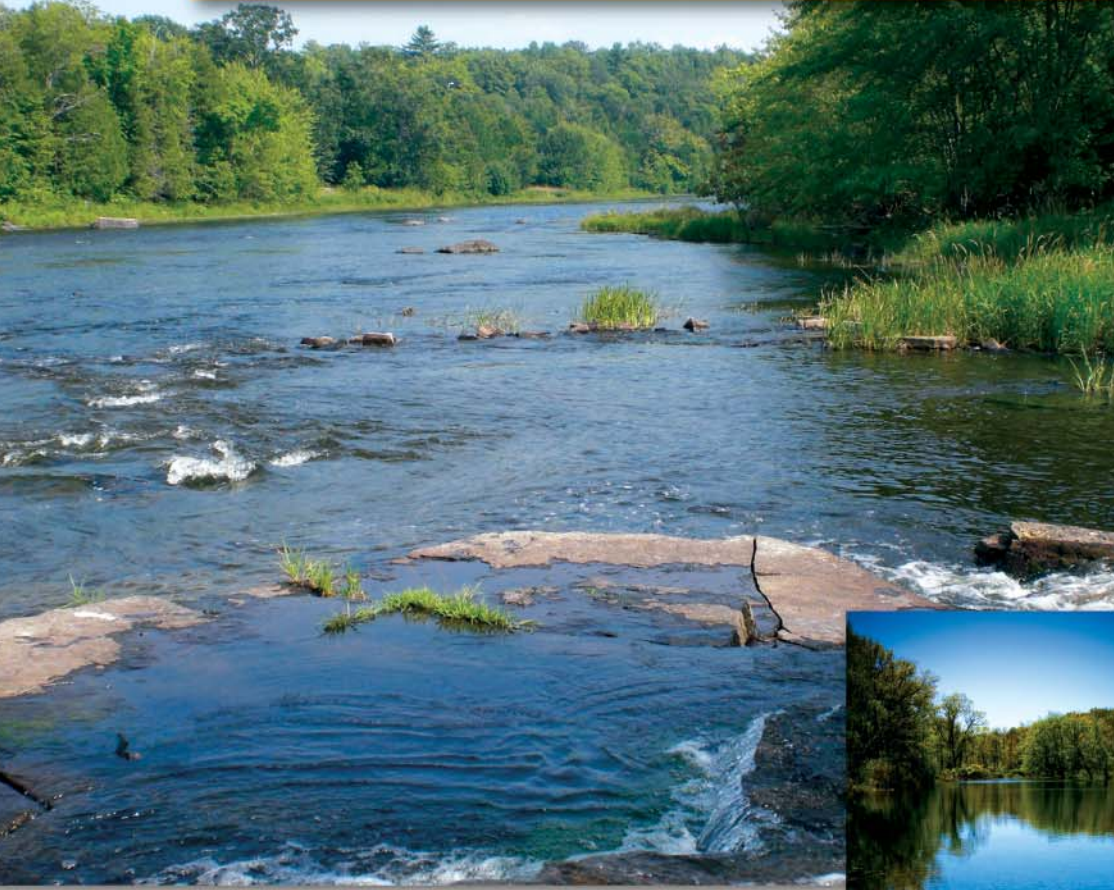
JULY							SEPTEMBER						
SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY	SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
1	2	3	4	5	6	7							1
8	9	10	11	12	13	14	2	3	4	5	6	7	8
15	16	17	18	19	20	21	9	10	11	12	13	14	15
22	23	24	25	26	27	28	16	17	18	19	20	21	22
29	30	31					23 <sup>30</sup>	24	25	26	27	28	29

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
			1 ○	2	3	4
5	6 Civic Holiday	7	8	9 ●	10	11
12 International Youth Day	13	14	15	16	17 ●	18
19	20	21	22	23	24 ●	25
26	27	28	29	30	31 ○	

● NEW MOON   ● FIRST QUARTER   ○ FULL MOON   ● LAST QUARTER



# Freshwater sustains life – together we must protect it



Freshwater makes up less than 3% of all the water on earth and human life depends upon it. Supplies are strained and the health of global communities depends on reliable access to freshwater. That's why RBC created the Blue Water Project, their \$50 million commitment to hundreds of organizations around the world that work tirelessly to protect this most precious resource.



RBC  
Blue Water  
Project™



Photo by Bud Newton



For more information about  
RBC Blue Water Project.



# September 2012

AUGUST							OCTOBER						
SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY	SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
5	6	7	1	2	3	4	7	8	9	10	11	12	13
12	13	14	15	16	17	18	14	15	16	17	18	19	20
19	20	21	22	23	24	25	21	22	23	24	25	26	27
26	27	28	29	30	31		28	29	30	31			

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
						1
2	3 Labour Day	4	5	6	7	8 ☾
9	10	11	12	13	14	15 ●
16 World Ozone Day <a href="http://www.uneptie.org/ozoneaction">www.uneptie.org/ozoneaction</a>	17	18	19	20	21	22 ☾ Fall Begins Car Free Day <a href="http://www.worldcarfreeday.net/wcfd">www.worldcarfreeday.net/wcfd</a>
23 National Forest Week <a href="http://www.canadianforestry.com">www.canadianforestry.com</a>	24	25	26	27	28	29 ○
30 World Rivers Day <a href="http://www.worldriversday.bc.ca">www.worldriversday.bc.ca</a>						

● NEW MOON    ☾ FIRST QUARTER    ○ FULL MOON    ☽ LAST QUARTER

# How 'great' are the Great Lakes?

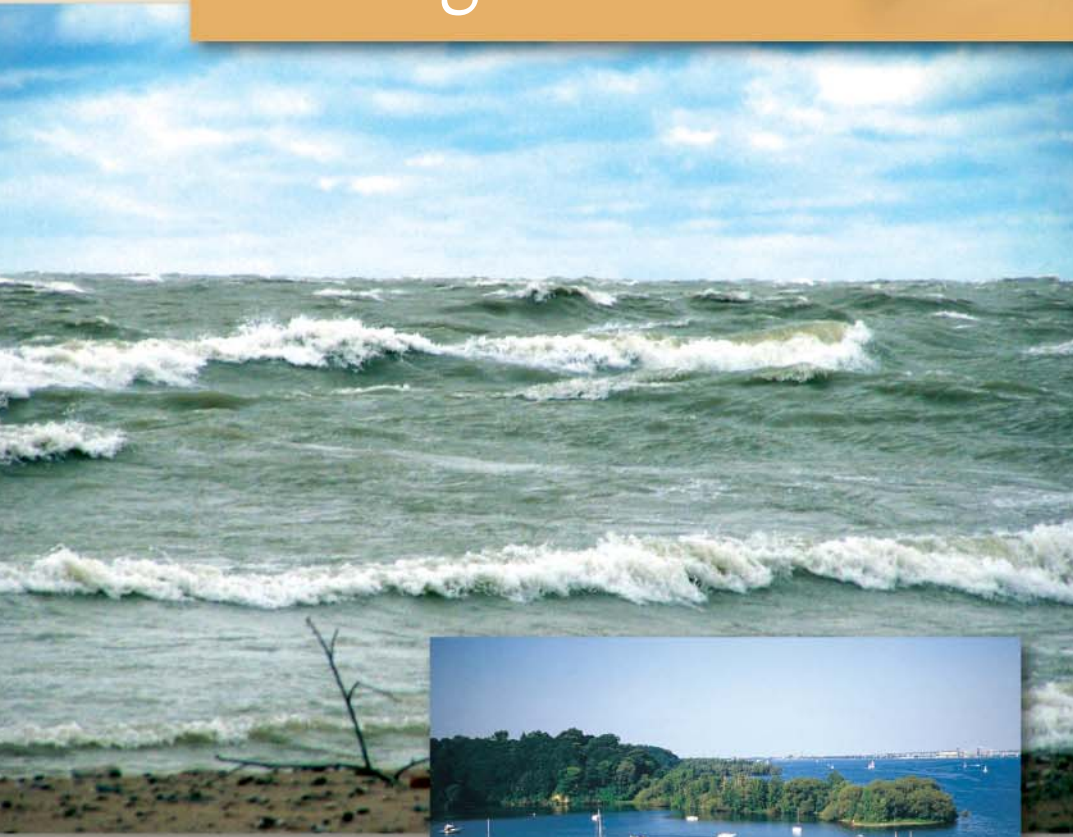


Photo by Eileen Lewinton

## How 'great' are the Great Lakes?

The Great Lakes-St. Lawrence basin represents the largest system of fresh surface water on the planet, and a number of people rely on it for economic, agricultural, health, and recreational uses. Unfortunately, the basin is at risk. Threats include a rapidly expanding and demanding population, invasive species, pollution and chemical contaminants, and climate change.

## The Great Lakes-St. Lawrence Basin:

- Is home to 98% of Ontarians
- Is responsible, in some way, for more than 80% of the power generated in Ontario
- Is one of the most biologically rich regions in Canada, with more than 3000 species of plants and 150 fish species living in the basin
- Supports at least 40% of Canada's economic activity
- Provides drinking water to more than 70% of Ontarians



Find out how you can help  
keep the great lakes great.

# October 2012

SEPTEMBER							NOVEMBER						
SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY	SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
2	3	4	5	6	7	8	4	5	6	7	8	9	10
9	10	11	12	13	14	15	11	12	13	14	15	16	17
16	17	18	19	20	21	22	18	19	20	21	22	23	24
23 30	24	25	26	27	28	29	25	26	27	28	29	30	

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
	1	2	3	4	5	6
	Ontario Hiking Week					
7	8 ☾	9	10	11	12	13
	Thanksgiving Day					
14	15 ●	16	17	18	19	20
21 ☾	22	23	24	25	26	27
28	29 ○	30	31			
			Halloween			

● NEW MOON    ☾ FIRST QUARTER    ○ FULL MOON    ☽ LAST QUARTER



# Canadian Heritage Rivers

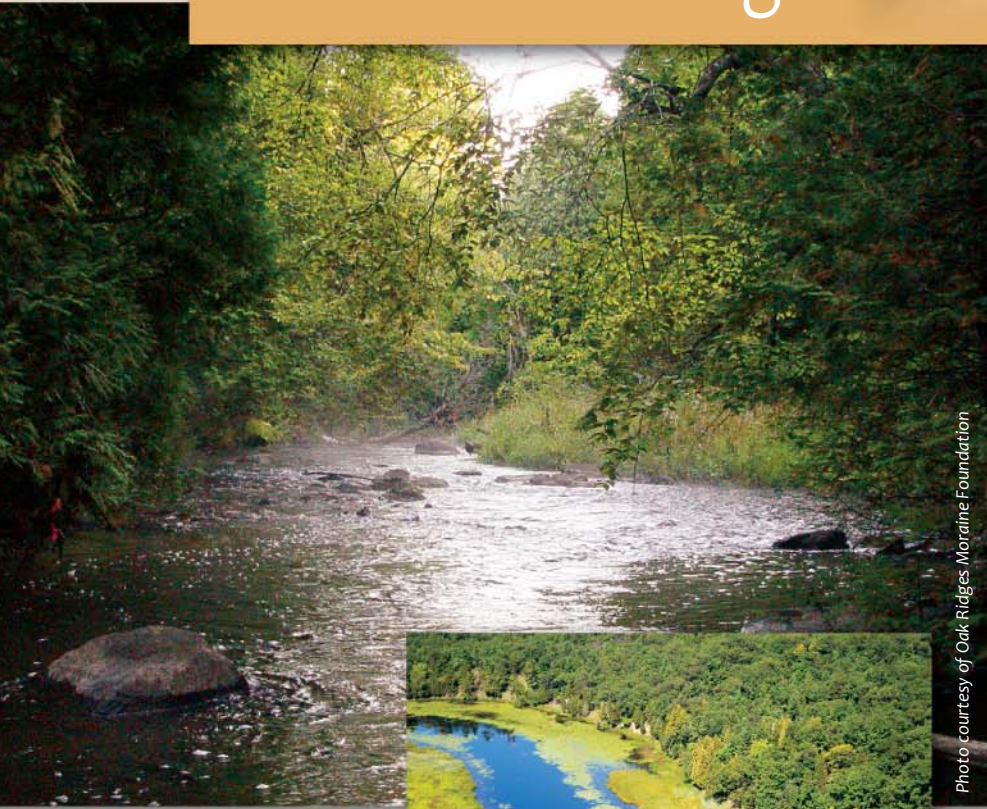


Photo courtesy of Oak Ridges Moraine Foundation



There are over 200 rivers that flow through Ontario, but only 11 have been designated as Canadian Heritage Rivers. In order to qualify as a Heritage River in Canada, a river must have outstanding natural, cultural, and recreational heritage, and there must be a high level of public support for the river to be designated as such. While no new legislation to protect the river is enacted when a river is designated this way, Heritage Rivers are given national recognition and people are encouraged to enjoy and appreciate them. There are a total of 41 Heritage Rivers in Canada.

## Heritage Rivers flowing through Ontario:

- Bloodvein River
- Boundary Waters-Voyageur Waterway
- Detroit River
- French River
- Grand River
- Humber River
- Mattawa River
- Missinaibi River
- Rideau River
- St. Marys River
- Thames River

**“Urban Watersheds: From Runoff to Renewal”** –  
Alexandra Cousteau’s Expedition Blue Planet  
explores the hidden world of water under Toronto  
and the role of rivers in our urban ecosystems.



# November 2012

OCTOBER							DECEMBER						
SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY	SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
	1	2	3	4	5	6							1
7	8	9	10	11	12	13	2	3	4	5	6	7	8
14	15	16	17	18	19	20	9	10	11	12	13	14	15
21	22	23	24	25	26	27	16	17	18	19	20	21	22
28	29	30	31				23 <sub>(30)</sub>	24 <sub>(31)</sub>	25	26	27	28	29

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
				1	2	3
4	5	6 ☾	7	8	9	10
11	12	13 ●	14	15	16	17
Remembrance Day			A.D. LATORNELL CONSERVATION SYMPOSIUM			
18	19	20 ☾	21	22	23	24
			World Fisheries Day <a href="http://www.gdrc.org/doyourbit">www.gdrc.org/doyourbit</a>	28 ○	29	30
25	26	27				

● NEW MOON    ◐ FIRST QUARTER    ○ FULL MOON    ◑ LAST QUARTER

# The Oak Ridges Moraine – Southern Ontario’s Rain Barrel

The Oak Ridges Moraine is a unique and irreplaceable landscape that stretches 160 kilometres from the Trent River to the Niagara Escarpment.

Shared and enjoyed by millions of people, it is the headwaters for 65 river systems and home to a wealth of natural habitats. One of the Moraine’s most important functions is that it acts as a water recharge and discharge system. Permeable sands and gravel absorb and collect rain and melted snow, which then slowly filters into aquifers below the ground. This groundwater is then used in private and public wells across the Moraine, providing clean drinking water to more than 250,000 people. It is because of this function that the Moraine is often described as southern Ontario’s rain barrel.

The Oak Ridges Moraine is over 13,000 years in the making! As the glaciers began to retreat and melting progressed, the ice over southern Ontario divided into 2 lobes, forming a distinct crack that ran along the future ridgeline of the Moraine. Torrential flood channels developed beneath this melting ice, carrying sediments and dumping them into the crack between the two lobes. These sediments of sand and gravel formed the initial core of the Moraine.



Photo by Rose Hasner TRCA

Photo courtesy of Oak Ridges Moraine Foundation



Photo courtesy of Oak Ridges Moraine Foundation



Visit the *Moraine for Life* website to learn more about how the Moraine was formed.



# December 2012

NOVEMBER							JANUARY 2013						
SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY	SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
				1	2	3			1	2	3	4	5
4	5	6	7	8	9	10	6	7	8	9	10	11	12
11	12	13	14	15	16	17	13	14	15	16	17	18	19
18	19	20	21	22	23	24	20	21	22	23	24	25	26
25	26	27	28	29	30		27	28	29	30	31		

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
						1
2	3	4	5	6 ☾	7	8
9	10	11	12	13 ●	14	15
16	17	18	19	20 ☾	21	22
23	24 Christmas Eve	25	26	27	28 ☉ Winter Begins	29
30	31 New Year's Eve	Christmas Day	Boxing Day			

● NEW MOON    ☾ FIRST QUARTER    ☉ FULL MOON    ☽ LAST QUARTER





Conservation  
**ONTARIO**

**CONSERVATION ONTARIO**

Box 11, 120 Bayview Parkway  
Newmarket, ON L3Y 4W3  
T: 905 895 0716 F: 905 895 0751

*Conservation Ontario Represents Ontario's 36 Conservation Authorities*

**[www.conservationontario.ca](http://www.conservationontario.ca)**



**A.D. LATORNELL**  
CONSERVATION SYMPOSIUM

*Cette publication est également disponible en français.*  
Designed and Produced by Allset Inc.