# Ontario Invasive Plant Council Annual Report 2013-2014



# 2013-2014











### **EXECUTIVE SUMMARY**

### The Ontario Invasive Plant Council (OIPC)

The OIPC was created to facilitate a coordinated and effective response to the threat of invasive plants by providing leadership, expertise and a forum to educate, motivate and empower organizations and citizens.

In the 2013/2014 fiscal year (April 1 2013 - March 31 2014) the OIPC completed a large number of projects, including projects through support from our new and long-standing partners: Environment Canada-Canadian Wildlife Service, the Invasive Species Centre and the Ontario Ministry of Natural Resources and Forestry. The Board of Directors continued to work through their terms which were renewed for another 2 years. The Executive Committee's term also came to an end, and voting for the new executive took place later in 2014. The OIPC Board is a coalition of government, non-government, First Nations, academic institutions and 2 members-at-large voted on to the Board from the general membership. The OIPC Board in 2013-14 included:

### Voting Board of Directors

- Owen Williams, OIPC President & Member at Large
- Ken Towle, OIPC Vice-President & Conservation Ontario
- Dawn Sucee, Ontario Federation of Anglers and Hunters
- John Benham, Ontario Soil and Crop Improvement Association/Wellington County
- Andrew Pitek, Forests Ontario
- Jeanine West, Landscape Ontario/Verbinnens Nursery
- Lindsay Barr, Royal Botanical Gardens
- Dr. Robert Simmons, Ontario Horticultural Association
- Mary Gordon, Hydro One
- Larry McDermott, Plenty Canada
- Dan Kraus, Nature Conservancy of Canada
- John Urguhart, Ontario Nature
- Sandy Smith, University of Toronto
- position available, Ontario Society for Ecological Restoration
- Jennifer Gibb, City of Toronto
- Iola Price, Member at Large

### Advisory (non-voting) Directors

- Michael Irvine, Ontario Ministry of Natural Resources and Forestry (Forest Health and Silviculture)
- Paula Berketo, Ontario Ministry of Transportation (MTO)
- · Karen Hartley, Ontario Ministry of Natural Resources and Forestry (Parks and Protected Areas)
- Hugh Berges, Ontario Ministry of Agriculture, Food and Rural Affairs (OMAFRA)
- Elizabeth Wright, Ontario Ministry of Natural Resources and Forestry (Biodiversity Policy)
- Diana Mooii, Canadian Food Inspection Agency (CFIA)

In 2013/14, the official membership of OIPC rose slightly to 150 members showing support to the Council from across the Province. OIPC members receive discounts on events that are put on by the Council, receive a monthly newsletter and vote for members at large and other important OIPC items at the OIPC Annual General Meeting.

In 2013/14, OIPC was fortunate to secure project funds from the Invasive Species Centre, the Ontario Ministry of Natural Resources and Forestry (OMNRF), and Environment Canada (Canadian Wildlife Service), as well as receiving sponsorship for our Annual General Meeting from Hydro One, DowAgro Science and, the Ontario Ministry of Natural Resources and Forestry. Funding proposals for the 2013/14 year were submitted to the Invasive Species Centre, the Ontario Ministry of Natural Resources and Forestry, Environment Canada - CWS, EcoAction Community Funding Program, Great Lakes Guardian Community Fund, and the Biodiversity Education and Awareness Network Program's International Biodiversity Day funding.

### **PARTNERSHIPS**

The OIPC continued to work with partners across the country by contributing as a Board Member on the Canadian Council on Invasive Species (CCIS). The CCIS is the National invasive species group which became federally incorporated back in 2012. The CCIS works collaboratively across jurisdictional boundaries to support actions and information that can help reduce the threat and impacts of invasive species. The National Council is made up of representatives from First Nations, Federal Government, Provincial Governments and Invasive Plant/Species Councils from each province. In 2013-14 the CCIS received federal funding to create a National Horticulture Action Plan, coordinate and plan the 2014 Weeds Across Borders conference, provide input to the National report on the Convention on Biological diversity, and continue to strengthen and protect provincial/territorial councils.

The OIPC is also a Board Member of the Midwest Invasive Plant Network (MIPN), which is a group of representatives from organizations in the Great Lake states and Ontario, formed to reduce the impact of invasive plant species in the Midwest region.

In order for the OIPC to accomplish its important and extensive tasks, the organization is highly reliant on strong partnerships. Since the inception of the Council, working cooperatively has proven to be the most effective means to deal with the invasive plant problem. Some of the projects that OIPC has been working on with its partners this fiscal include:

 Working with the Credit Valley Conservation lead group on Early Detection Rapid Response (EDRR): OIPC assisted Credit Valley Conservation and other partners in the development of a work plan and writing funding proposals in order to help with the creation of an Early Detection and Rapid Response Network for the Credit Valley Watershed. It is the hope that this pilot project, can be used as a framework to create EDRR plans in other areas of the province.

- Worked closely with the EDDMapS Ontario Steering Committee: OIPC continued to participate on the Early Detection and Distribution Mapping System EDDMapS steering committee while they worked to launch the program and smart phone app. The steering committee did become inactive after the program was launched as its duties were fulfilled.
- Partnership with Voyageur Provincial Park: This year, OIPC partnered with Voyageur Provincial Park to assist the park in their efforts to eradicate invasive water chestnut (*Trapa natans*). The staff at the park did additional monitoring and removal of plants outside of the park boundaries along the Ottawa River, and worked to clear five bays of water chestnut using a cutting boat and a mechanical harvesting boat. This year, they also started volunteer days, where members of the public or people staying at the park could join in to assist in monitoring and manual removal, as well as seed collection along the beaches. The project will continue next summer.

### **OIPC COMMITTEES**

Each committee works towards its goals and objectives by holding meetings to discuss the priorities they have set out, and each of the committees has been successful in accomplishing a variety of projects over the course of the year. Committees assess the work that is required by them and work according to their schedules. During the 2013-2014 fiscal year, 5 committees were active, some more than others depending on the issues that arose across the province. The OIPC has 7 committees in total 2 of which were inactive during the 2013-2014 fiscal. The 7 committees are:

- Policy Committee
- Communications Committee
- Research/Control Committee
- Horticultural Outreach Collaborative
- Fundraising Committee
- Website Committee
- Ontario Phragmites Working Group

### **Policy Committee**

The OIPC Policy Committee was created in order to develop council positions, advise members and identify gaps in provincial policy. This committee deals with the legislative and policy aspects and issues that address invasive plants. During the 2013/14 fiscal this committee was inactive.

### **Communications Committee**

The OIPC Communications Committee engages the public through education, action and information exchange. In 2013/14, this committee was co-chaired by Francine MacDonald (OMNRF) and Sophie Monfette/Matt Smith (OFAH).

### **Research and Control Committee (RCC)**

The OIPC Research and Control Committee identifies invasive plant pathways, priority species and impacts, coordinates research and monitoring activities, and best management practices. In 2013/14, this committee was co-chaired by Sandy Smith (University of Toronto) and Iola Price (Ottawa Invasive Plant Working Group) and helped review some of the OIPC BMPs and participated in the webinars.

### The Horticulture Outreach Collaborative (HOC)

The OIPC Horticultural Outreach Collaborative works closely with the members of the horticultural industry in order to reduce the sale of invasive plants and inform gardeners and hobby farmers about the impacts of those species. In 2013/14, this committee was chaired by Diana Shermet (Central Lake Ontario Conservation Authority) and continued to promote the Grow Me Instead information and the Nursery Recognition Program.

### The Fundraising Committee

The OIPC Fundraising Committee was formed in February 2011, and works to secure organizational and project funding for the Council's activities. In 2013/2014 this committee reviewed and provided comments on grant proposals for the OIPC staff.

### **The Website Committee**

The Website Committee was formed in order to work on updates to the website. The committee has been mostly inactive this year. The OIPC is hoping to make some updates to the website in the near future to ensure that it is more user friendly and easier to navigate.

### The Ontario Phragmites Working Group (OPWG)

In September, the OPWG officially joined the OIPC as a new committee. This group was created to bring together citizens, agencies, contractors, and municipalities who are working to address *Phragmites* infestations in Ontario. During the 2013/14 fiscal this group helped to develop a new website dedicated to *Phragmites* and worked on a landowner's toolkit to deal with *Phragmites*.

### In 2013-14, the OIPC Committees and Staff Worked On:

- <u>Phragmites resource website</u>: Funded through a partnership with the OMNRF.
   This year with the help of the OPWG, the OIPC developed a resource portal website dedicated to *Phragmites*. This website was created to provide a webbased tool to increase communication on new science and management activities on *Phragmites* in Ontario and neighbouring provinces and states. This website is live and hosted within the existing OIPC website at <a href="https://www.opwg.ontarioinvasiveplants.ca">www.opwg.ontarioinvasiveplants.ca</a>
- <u>Constitution and bylaws</u>: The constitution and bylaws were reviewed by a lawyer and updates were made. OIPC members will discuss and vote on the constitution and bylaws at the 2014 OIPC AGM at the Peterborough Golf and Country Club.

- Sustainability plan and strategic plan: OIPC continues to incorporate the suggested actions from the Sustainability Plan in to the OIPC Strategic Plan for the next 5 years. One of the suggested items was to raise the yearly membership price from \$15 to \$30, an action that was undertaken and met with support from our network and membership.
- <u>Invasive species discussion paper</u>. The OMNRF released an invasive species discussion paper in August 2013. This paper lists options for discussion to aid in protecting Ontario from the impacts of invasive species.

From the Environmental Registry "The Invasive Species Discussion Paper suggests a new prevention and management framework to support the goals of OISSP. The elements of the new prevention and management framework include:

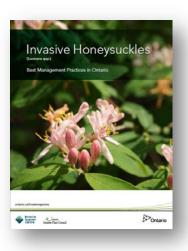
- Listing of Species Based on a two-phased science-based risk assessment process.
- Species listed in categories which could be based on consideration of risk with prevention and control strategies established for each category.
- Listing of Carriers Carriers are things that have been shown to move invasive species from one place to another. Science based risk assessments could be used to list carriers that harbour high risk invasive species.
- Authority to establish management plans and facilitate agreements with partners.
- Allow for new enabling tools to assist in control and management."

OIPC provided feedback on this discussion paper at a workshop, held in Toronto, and through comments submitted on the Environmental Registry. Our feedback included: support of a risk-based listing and the suggestion that it is done under the Precautionary Principle (that species are considered invasive until proven not to be through risk assessment); suggestion to support new research for eradication and rapid risk assessment; expanding partnerships and supporting existing partnerships and an addition to a section stating that control costs be borne by those who are responsible for the introduction; a fund created from those fined for possessing/spreading invasive species (where it can be determined) should be put together for each region and used for assisting organizations/municipalities in their control work and eradication efforts for priority species.

 4 Best Management Practices (BMP) Guides: OIPC was fortunate to receive funding from two different sources to create 4 new BMPs. Canadian Wildlife Service (Environment Canada) contracted the OIPC to write a BMP on White Sweet Clover and European Black Alder, while the Invasive Species Centre provided the means to develop BMPs on Wild Parsnip and invasive honeysuckles.

The OIPC along with its partners and network of experts have had success with the BMP series which provide information on the biology, identification features, distribution, habitat, control measures, prevention, reporting tools and restoration tactics after control has been achieved. The OIPC's success with the BMPs is due to the partnerships with invasive plant experts, and the extensive research reviews. These BMPs are a concise, easy to read, document with information extracted from research papers and experience from invasive plant experts in Ontario. The continued use and demand for these products prove that it is a project that is highly sought after and is needed in the world of invasive plants and the OIPC is happy to continue to provide this information to those who need it.









Terrestrial BMP training modules: The OMNRF contracted the OIPC to develop and deliver BMP training modules. In order to deliver this the OIPC, in collaboration with the OMNRF, developed the Training Modules using

information from the existing BMPs and help from invasive plant experts. The modules were developed and 7 invasive plant webinars were held on a weekly basis in order to inform land managers about invasive plants. Each module included a presentation with information on the biology of the plant, life history, identification features, best management practices, life cycle information, permitting requirements, and reporting tools. The webinars were held as an open forum for discussion in which participants were able to speak with a panel of experts. All webinars were well attended and the OIPC hopes to conduct more in the future. Once completed each module had a quiz in which participants were able to test their knowledge and receive a certificate of completion.

- Weeds Across Borders conference: The OIPC is on the organizing committee for the Weeds Across Borders 2014 conference to be held in Ottawa in October. This is a tri-national event held between Canada, US and Mexico. The OIPC has taken the lead on planning the field tours for the meeting and is working with some great partners to provide these tours.
- Technical Guide for Aquatic Invasive Plants in Ontario: The OMNRF also contracted the OIPC to develop this technical guide. This guide is similar to the OIPC Best Management Practices (BMP) guides and features 20 aquatic invasive plant species. Information for each species includes: biology of the plant; history; distribution; control measures; permitting process; and other pertinent information for the management of aquatic invasive plant species. To ensure the information was up to date and correct the OIPC conducted research reviews and consulted with a number of experts. The guide was completed over the year and will be posted on the OIPC website in the very near future.
- Invasive Plant Management Workshop for Landowners and Practitioners: The ISC provided funding to OIPC to convene 2 working groups to review, edit and update the original landowner invasive plant management presentation, which was first developed in 2009. The OIPC created 2 new presentations focusing mainly on aiding land managers and field practitioners. The newly developed material included new presentations and toolkits. OIPC also hosted 2 workshops in the York Region (60 attendees) and the Simcoe County area (20 attendees). Finally the OIPC developed a "how to" toolkit with the material and information so that others could host their own workshops for field workers and other land managers within their areas. All the information can be found on the OIPC website and we hope that agencies, municipalities and private industry workers will use them to train their staff on invasive species management.
- Survey for Invasive Strategic Plans: The OIPC was enlisted to develop and deliver a survey which was sent out through the OIPC network to understand the scope of invasive species strategic plans in the province. The respondents were asked questions on the size and scope of their strategies and the species on which they focus. The results from the survey were analyzed and sent to the

MNRF in a formal report. They will help to determine future actions for the province.

- The Grow Me Instead program: Consists of two guidebooks (one for northern Ontario and one for southern Ontario), and a pre-packaged electronic presentation. The program focuses on providing information on popular invasive garden plants, and providing some ideas for non-invasive plant alternatives. Within the GMI program is the Nursery Recognition Program (NRP) which enables nurseries and garden centres to share the GMI information by participating in the program and providing their clients with the information about invasive plants and non-invasive alternatives. Thanks to funding last fiscal from the ISC, the Grow Me Instead Nursery Recognition Program expanded again this summer through our local partners. OIPC worked with local, on the ground organizations such as Conservation Authorities to expand the program across Ontario. There are now over 40 nurseries signed on to the program throughout the province. A full list of participating nurseries can be found on the OIPC website on the Gardeners and Horticulturalists page.
- Look Before You Leave (LBYL) expansion: The ISC provided funding to OIPC to expand on the LBYL program. OIPC created messaging to reach 3 new target

groups: campers, trail users and recreational boaters. New posters were created, delivered and posted in high traffic areas for these target groups. The LBYL campaign also received a new logo to ensure a common look and theme. Finally a children's activity book was developed which features the Invader Raiders, a group of superheroes who fight evil invasive species. The booklets are aimed at children aged 7-9 and have



been tested by children who have enjoyed the games and gave the book a thumbs up! These booklets can be downloaded from our website and will be printed when funding becomes available and delivered to schools and other appropriate locations.

 Parks signage for Phragmites: OIPC also received ISC funding to develop, design, print and deliver signage to Ontario Parks across the province. The signs were created to provide messaging around invasive species but also to inform people of the necessary tools that are required to manage invasive species, including herbicides.

- 7<sup>th</sup> Annual General Meeting and Invasive Plant Symposium: The OIPC hosted its 7<sup>th</sup> AGM and Invasive Plant Symposium at Geneva Park, near Orillia. The
  - event boasted 22 speakers focusing on invasive plant species, brainstorming sessions for the OIPC committees. networking opportunities and field tours. Over 100 people were in attendance and it was very well received.
- Letters/Responses: In 2013/14, OIPC responded to several policy changes and advocated for invasive plant issues to receive attention and funding. OIPC provided a response to the Ontario Invasive Species Act draft posting on the



EBR, which, unfortunately, died when the provincial election was called. We received several requests from the Canadian Food Inspection Agency and the European Union to provide information/comments on proposed policy and regulations.

### **COMMUNICATIONS**

### In the News

The OIPC attended and partnered in a variety of media events, conducted interviews and distributed radio and print public service announcements.

### **Events**

In 2013/14 OIPC reached a large number of people through attendance at events, presentations and workshops. OIPC has become a common name in the horticultural world, and provided presentations for Master Gardening and Horticultural Clubs. The OIPC attended a variety of events to lend a hand or conduct presentations. Events included: The Alberta Invasive Species Council AGM, the Peterborough Home and Garden show, and a Farms at Work event.

The OIPC was also involved in a number of workshops to discuss invasive plant management and our Clean Equipment Protocol. For a full list of the events OIPC attended please see Table 1.

Table 1: Events, Presentations and Workshops attended in 2013/14

Name	Date	Location
Lambton Shores <i>Phragmites</i> workshop	April 2013	Lambton County
Farms Stewardship Meeting	April 2013	Peterborough
Presentation to Orillia Horticulture Club	April 2013	Orillia
Ecosystems Management mock interview day	April 2013	Lindsay
International Conference on Aquatic invasive Species	April 2013	Niagara Falls
Clean Equipment Protocol workshop with CLOCA at Ontario Power Generators	May 2013	Clarington
Giant Hogweed Workshop	May 2013	Sudbury
Clean Equipment Protocol Workshop	May 2013	Darlington
Giant Hogweed control field tour	May 2013	Brampton
Presentation to the Haliburton Highlands Field Naturalists	May 2013	Haliburton
EDDMapS Ontario Workshop	May 2013	Toronto
Garlic Mustard Pull with ISAP	May 2013	Lindsay
Growing Biodiversity event	June 2013	Ganaraska CA
Trailhead Ontario Conference	June 2013	Peterborough
Presented to the Invasive Species Awareness Program's student training	June 2013	Peterborough
Giant Hogweed Webinar	July 2013	Peterborough
York Region Invasive Plant Workshop	Sept 2013	Aurora
Uxbridge Horticultural Society	Sept 2013	Uxbridge
Clean Equipment Protocol workshop with the City of London	Sept 2013	London
Clean Equipment Protocol workshop	Sept 2013	Niagara Falls
Invasive Species Workshop	Sept 2013	Toronto
Communities in Bloom	Sept 2013	Ottawa
Ontario Vegetative Management Association AGM	Sept 2013	Niagara Falls
Presqu'ile Invasive Plant Work Day presentation	Sept 2013	Presqu'ile PP
Clean Equipment Protocol Land Managers workshop	Oct 2013	Simcoe County
Presentation to the Bancroft Horticultural Society	Nov 2013	Bancroft
Clean Equipment Protocol Land Managers workshop	Unknown	Newmarket
Presentation to Master Gardeners group	January 2014	Newmarket
Buckthorn training module webinar	March 2014	Webinar
DSV training module webinar	March 2014	Webinar
Presentation at the Alberta Invasive Species Council AGM	March 2014	Lacombe Alberta

### Social media/ newsletter

The OIPC continues to distribute updates to a network of over 600 individuals, who receive information about invasive plant research, control projects, educational material, job postings, conferences, etc., that are being conducted across the province.

The growth in our followers on social media has increased substantially over the last fiscal.

The OIPC provides updates to followers through the OIPC Twitter page www.twitter.com/OIPC1 Our Twitter followers have increased from 385 as of April 1st, 2013 to 784 on March 31 2014. Showing an increase of 399 followers!



OIPC also has a Facebook page at

http://www.facebook.com/ontarioinvasiveplantcouncil On April 1, 2013 the OIPC Facebook account had 297 "likes". On March 31, 2014 we had 596 "likes" that is an increase of 299 followers.

### Media

OIPC had the opportunity to reach a large number of Ontarian's in 2013/14. Radio and print media was interested in talking to OIPC about various invasive plants, such as giant hogweed, and nursery plants. For a list of the media opportunities OIPC was involved in please see Table 2: Media Opportunities 2013/14

**Table 2: Media Opportunities 2013/14** 

Name	Circulation (Approximate)
Canadian Groundscaper magazine	500,000
Municipal World Magazine	50,000
Toronto Star	350,000
Globe and Mail	300,000
CBC news	30,000
TOTAL:	1,230,000

Name	<u>Location</u>
Stouffville radio station	Stouffville
Angler and Hunter Radio	Across Ontario
Invaders in our Forests - DVD	You Tube
CBC – Radio Canada - French	Windsor
CBC – Radio- English	Windsor
Angler and Hunter radio	Peterborough

### **OIPC WEBSITE Analytics for 2012-13 Fiscal Year Overview**

The OIPC website <u>www.ontarioinvasiveplants.ca</u>, provides users with up-to-date information including; downloadable educational materials, strategic documents, an events calendar, links to other invasive plant sites, Board activity notes, and more.

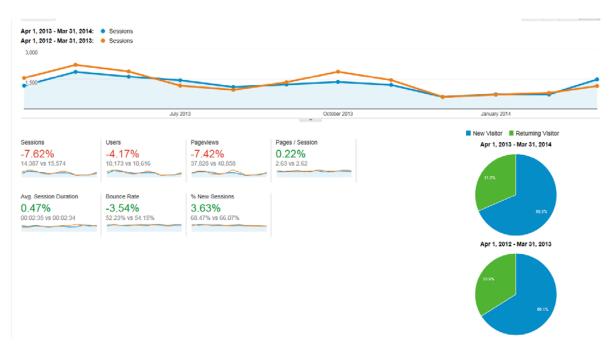
### Overview Comparing April 2012 - March 2013 to April 2013 - March 2014

The following is a brief overview of the Ontario Invasive Plant Council's website statistics for April 1<sup>st</sup>, 2013 through March 31<sup>st</sup>, 2014 (comparing them with the same time period the previous year; April 1<sup>st</sup>, 2012 – March 31<sup>st</sup>, 2013).

In 2013/14 the OIPC site visits (Sessions) were down slightly at just over 7% (from 15,574 to 14,387). This includes a 4% decrease in users (10,173 from 10,616) as well as page views which was down 7% (37,828 from 40,858). The OIPC has been looking at the possibility of updating the site to make it more user friendly and easier to navigate and we feel that these updates will help increase the traffic to the site.

There was a very minor increase in time spent on site per visit (2:35 from 2:34). The Bounce rate went down by 3% (from 54% to 52%). The Bounce rate is the rate at which people visit a single page on our website before exiting. Some suggest that a 50% bounce rate is to be expected, so although there is room to improve the site, we should not be overly concerned with this number.

Lastly the number of returning visitors was steady, down to 31% from approximately 34%. Which means our new visitors rate went up to 68% from 66%.



### Who is coming to our site?

The geographic location of our audience remains constant with **most visits (95%)** coming from Canada (13,685 out of 14,387). Other Countries who visited the site include United States (506), India (23) and the United Kingdom (19). Most of the visitors in Canada are from Ontario (12,801) the next highest visitors came from Quebec (450). The top cities in Ontario that send traffic to our site are; Toronto, Peterborough, Ottawa, London and Mississauga. This is very similar to previous years.

### **How Are Visitors Coming to Our Site?**

Over half (55.3% or 8,616) of the visitors to the OIPC website are arriving through a keyword search, using phrases such as "Ontario Invasive Plant Council", "Grow Me Instead", "Invasive Plants in Ontario" and "OIPC Ontario". These search terms (and those we can glean using Adwords) can help determine the key words we use in website titles, content, as well as Meta tags.

**Referrals increased from 1,571 to 3,098.** Referrals came from invadingspecies.com (490 up from 297), twitter (289 up from 151 last year), and facebook (270), mnr.gov.on.ca (155) natureconservancy.ca (53), environment canada (38), and even CBC (35)

### What pages are people viewing?

The top landing pages (pages that visitors enter our site) are:

- The homepage (56% down from 71%)
- Gardeners & Horticulture (9% up from 6%)
- Control Information (3% up from 2%)
- Publications (3% down from 4%)

### THE FUTURE OF THE OIPC

The OIPC will continue to grow in 2014/15 and pursue its goals of managing invasive plants in a collaborative and effective manner.

## **Financial Statements for 2013-14**

Account Balance April 1, 2013	\$152,656.63
Expenditures	
Office/Admin	\$3,030.19
Mailing	\$2,285.85
Expenses	\$554.53
AGM	\$9,663.17
Phone and Teleconference	\$12,501.02
Graphic Design and Printing	\$14,876.52
Travel	\$5,749.07
Storage Unit	\$554.53
Salary	\$97,294.97
Photocopy	\$523.08
Contract Services	\$7,020.00
TOTAL	\$154,052.93
Revenue	
Project Revenue	\$154,076.35
Membership Revenue	\$9,633.25
Donation	\$2,250.00
TOTAL	\$165,959.60
Account Balance March 31 2014	\$164,563.30

<sup>\*</sup>to be reviewed by auditor.

### The OIPC received financial support in 2013-14 from the following organizations:





Catalyst for research and response









# Thank you to all our members! Your continued support is the key to our success!

We couldn't do it without you!!

Notes	

Notes	



# 2013-2014



Children checking out the new OIPC Activity book



Hayley Anderson at the OIPC booth display.



Danielle Tassie (OIPC Project Liaison in 2013) at ICAIS in Niagara Falls



**OIPC** material



**OIPC AGM and Conference 2013** 

### Thanks to our many Partners!



**Dow AgroSciences** 



































































































Waterfowl



RiverStone

Environmental Solutions Inc.











Hemlock Hill



Local Enhancement & Appreciation of Forests

