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Ontario Federation of Anglers and Hunters
April 25, 2015

Invading Species Awareness Program

Invasive species are one of the greatest threats to Ontario's biodiversity and health of our lakes, forests and wetlands.

Partnership of the OFAH and OMNR since 1992

Focus on prevention through multiple pathways

- » Participate in:
 - Public awareness
 - Reporting
 - Monitoring

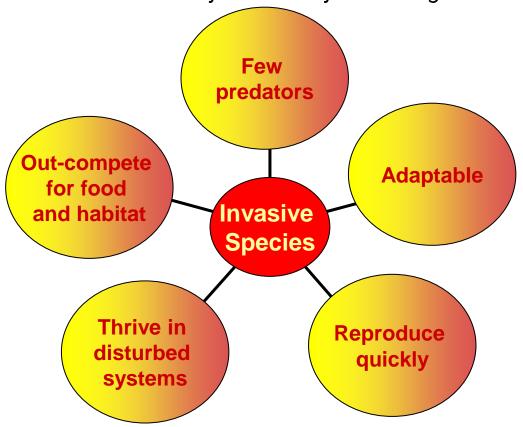






Aquatic Invasive Species

Invasive Species — Harmful alien species whose introduction or spread theatens the environment, the economy, or society, including human health







Reporting

Invading Species Hotline

- In operation since 1992 as the main invasive species point of contact for the public.
- The hotline serves a valuable role especially during times of increased public concern (e.g., Giant Hogweed & Asian Carp).

www.invadingspecies.com

 Individuals can also report sightings via email through the website.

EDDMapS.org/Ontario

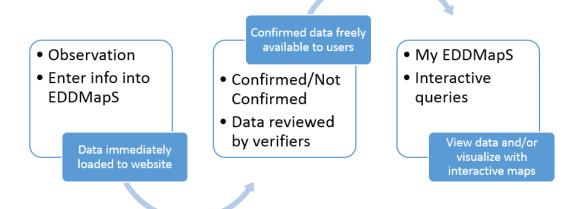






EDDMapS Ontario

- Launched in 2005 by the Centre for Invasive Species Ecosystem Health at the University of Georgia
- Combines data from other databases, organizations & Volunteers
- Data will become the foundation for a better understanding of invasive species distribution around the world
- > 2.2 million records and 22,906 of these records are from Ontario (as of April 2015)







www.eddmaps.org/Ontario







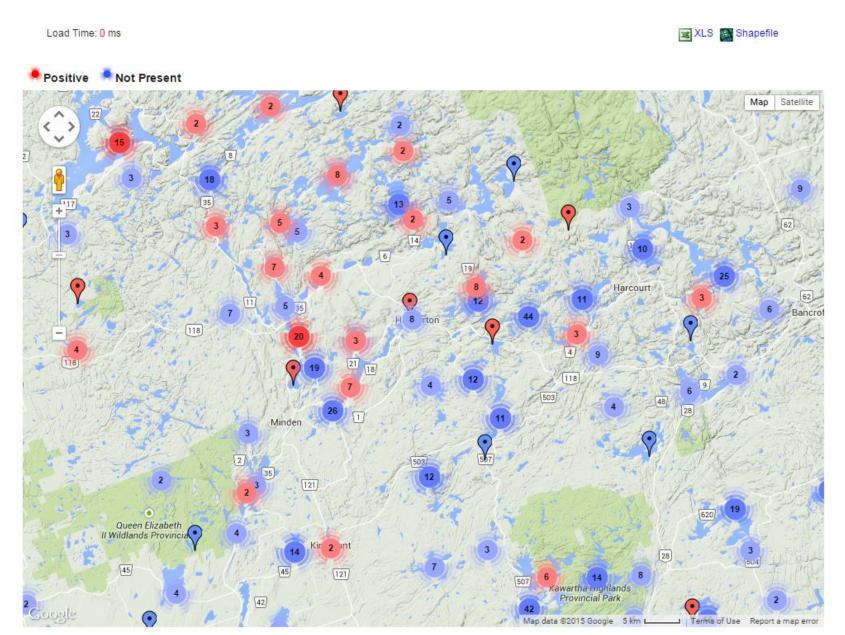


Dreissena polymorpha (Pallas)

XLS Shapefile Load Time: 3 ms Adults Veligers Not Present Harcourt Minden Queen Elizabeth II Wildlands Provincia Kinmount 45 [121] 2 rtha mighlands ovincial Park Coople Map data @2015 Google 5 km _____ Terms of Use Report a map error

spiny waterflea

Bythotrephes longimanus Leydig, 1860

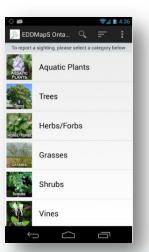


EDDMapS Ontario

- EDDMapS Ontario brings the power of EDDMapS to your Apple or Android device
- Visit the Google Play store or Apple iTunes App store to download it free (wifi preferred)
- Reports are uploaded directly to EDDMapS
- Same verification process as the web reports













- Established in 1998 in partnership with the Ministry of Natural Resources and Forestry
- Free, volunteer based lake monitoring program
- Initiated to assist cottagers and lake residents in detecting aquatic invasive species











Invading Species Watch Program - Goals

- One of many initiatives of the Invading Species Awareness Program
- Program was aimed to:
 - establish a volunteer network to track the spread of zebra mussels and spiny water flea in Ontario waters
 - increase local awareness of aquatic exotic species and
 - encourage greater public involvement in preventing their spread.

Since 1998, Over 600 lakes have been sampled!







How do I Get Involved?



Call the Invading Species Hotline —
 1-800-563-7711 and see if your lake has been sampled before

 Check your schedule and see what dates work for you, and if there is a kit available







- Volunteers receive monitoring kit and protocol via mail
- Kit includes:
 - Plankton haul net
 - marked & weighted rope
 - Wash bottle
 - Sample log sheets
 - Thermometer
 - Pencil(s) & zip ties
 - Ziplock bags
 - Sample bottles (3) & labels
- Volunteers need to purchase rubbing alcohol







The Monitoring Protocol

- 1. Choosing Sampling Sites
 - High Traffic Areas
 - Deep locations
 - Adjacent basins
 - Wind Currents
- 2. When to Collect Your Samples
 - As soon as possible!
 - Weather conditions







- 3. Collecting Your Samples
 - Safety First!
 - Sampling Log Sheets
 - Bottle Labels
- 4. Taking Samples Plankton Tow Net
 - Vertical Haul Method
 - Water depth equal or greater than 9 m
 - Horizontal Haul Method
 - Water depth less than 9 m







Back on Shore

- Preserve your samples
 - 2 parts rubbing alcohol:1part sample
- Equipment Maintenance and Disinfection
- Forwarding the kit and samples







- 6. Getting Results!
 - Action Plans
 - Awareness
 - Annual Report

2013

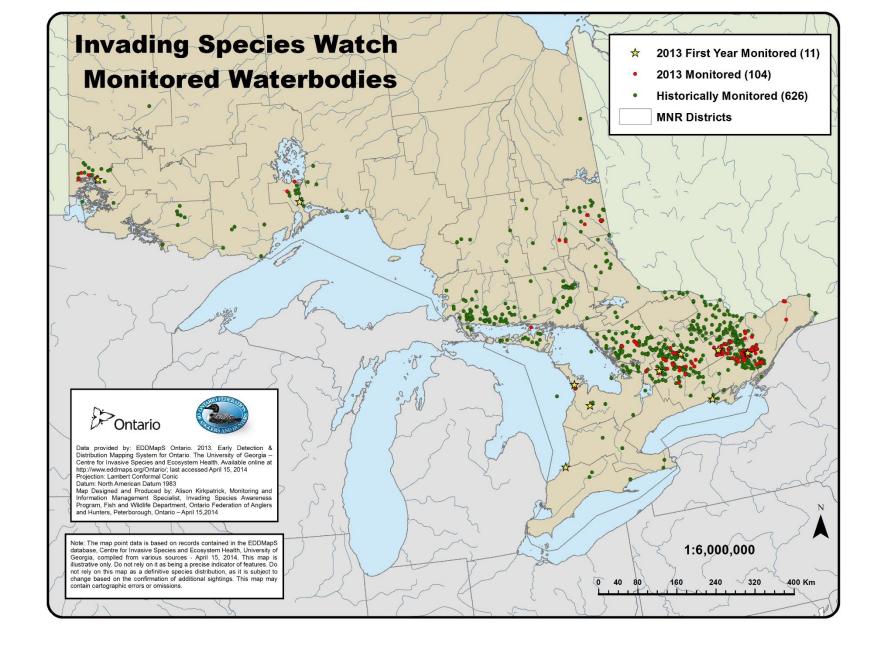
Invading Species Watch Program
Annual Report



Ontario Federation of Anglers and Hunters 2013

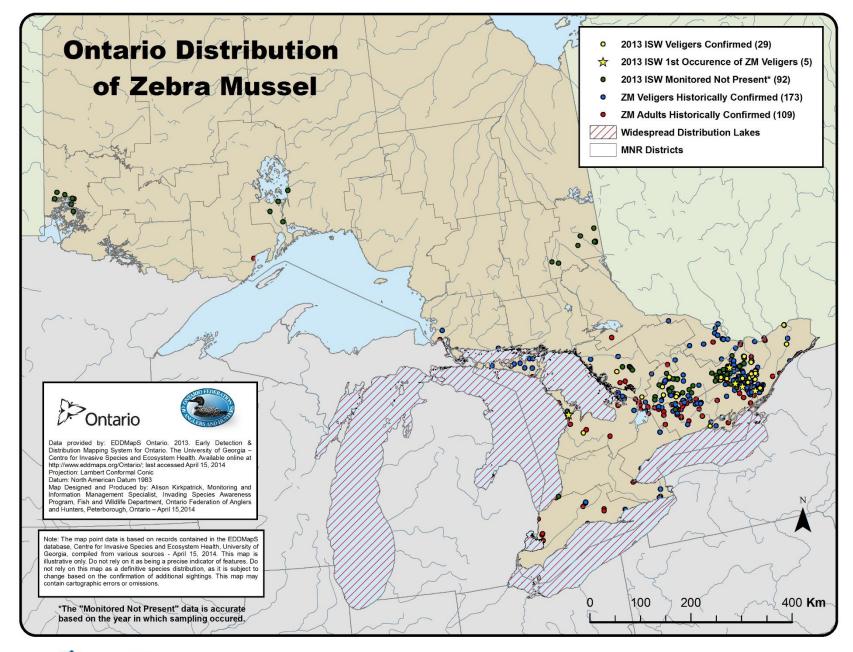






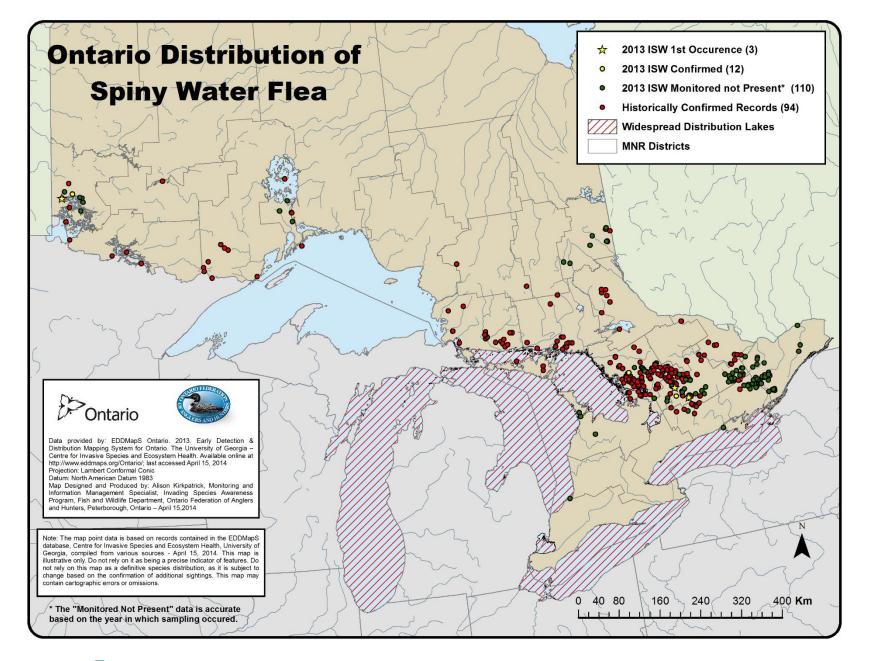
















Why Monitoring Is Important

- Since 1998, over 600 lakes have been tested
- In 2013, 130 lakes were monitored
 - 3 new occurrences for spiny waterflea
 - 5 new occurrences for zebra mussels
- Allows you to see what invasive species are present in your lake
- Can see other lakes nearby and prevent entry through education
- All data is entered into EDDMapS and accessible to public









How You Can Get Involved!



Invading Species Hotline 1-800-563-7711



Email info@invadingspecies.com

Visit <u>www.invadingspecies.com</u>

www.eddmaps.org/Ontario











Questions?





