

Ontario's Invading Species Awareness Program

Spreading the word...not the species!



Alison Kirkpatrick
Monitoring & Information Management Specialist

Invading Species Awareness Program

- Joint education/awareness partnership of the OFAH and the MNRF since 1992
 - Focus on education and outreach for aquatic and terrestrial invasive invertebrates, fish and plants
 - Focus on education and outreach to key pathways for invasive species introductions and/or spread
 - Develop and deliver programs designed to monitor the occurrence and distribution of invasive species
 - Contribute towards surveillance, control, and rapid response of invasive species (e.g., water soldier)



Education & Outreach

- Prevent the introduction and spread of invasive species to Ontario's waters and woodlands
- Public awareness is key to preventing the introduction and spread of invasive species
- Our goal...
 - Change public perceptions, attitudes and behaviours



Targeted Outreach

- Focus on education and outreach to key pathways for invasive species introductions and/or spread



boating



camping



hiking



ATV users



gardeners



pet industry



anglers



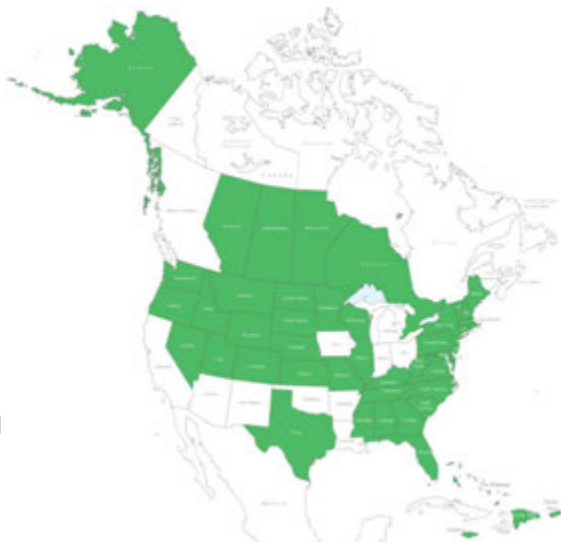
hunters

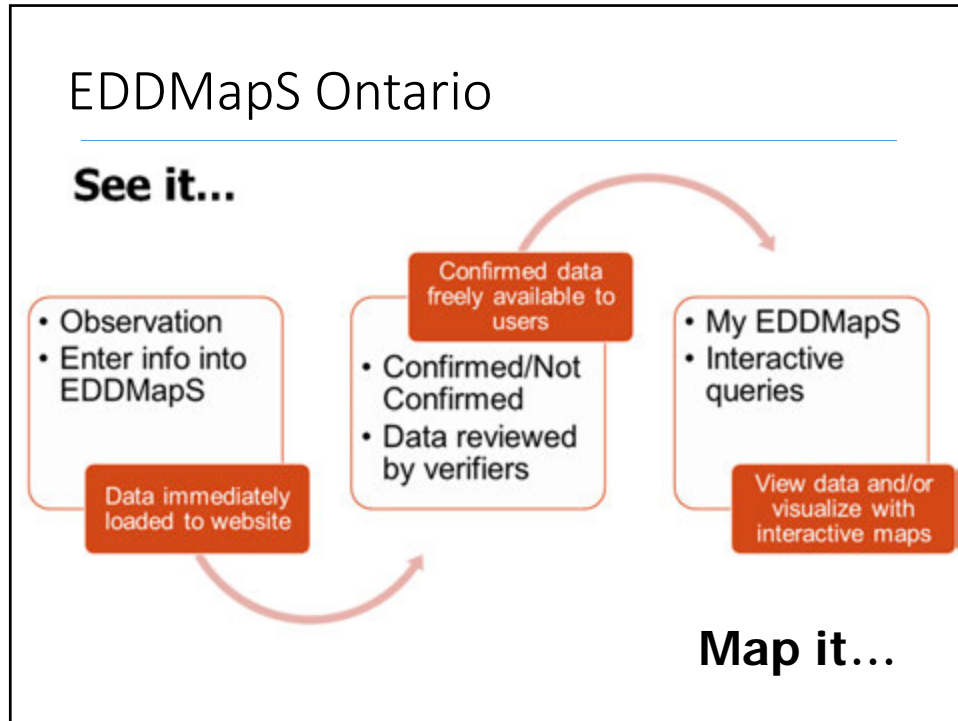
Monitoring & Reporting Tools...



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





EDDMapS Ontario

Visit the website:
www.eddmaps.org/Ontario

First time users?

[Register](#)

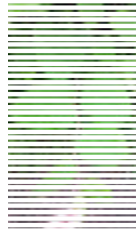
Returning user?

[Login](#)

What Can EDDMapS do for you?

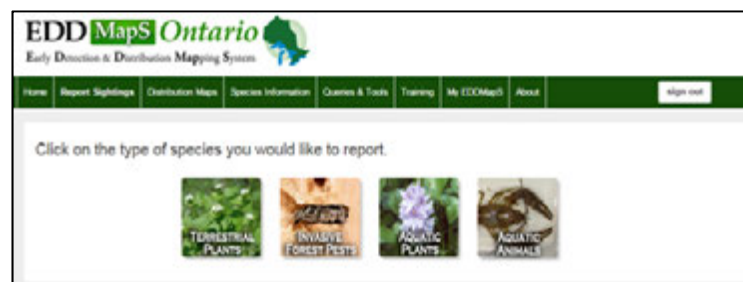
One-stop shop for invasive species

- Inventory of invasive species distribution
- “Alert” function allows you to be notified when invasive species are reported
- Download data to be presented to landowners, staff, etc.
- Assist with Early Detection & Rapid Response



Reporting Invasive Species

Make a report (professionals or the public)



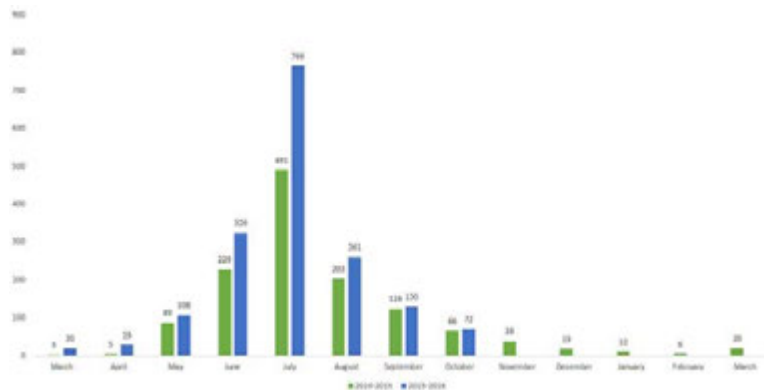
... or share your bulk data sets!

EDDMapS Ontario - Stats

Over 25,700 vetted, confirmed records in EDDMapS Ontario

April 1st, 2015 - present

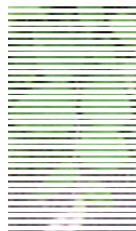
- 1,712 reports received directly to system
- Over 1,250 reports confirmed
- Over 1,500 uploaded through bulk upload



What Can EDDMapS do for you?

One-stop shop for invasive species

- Inventory of invasive species distribution
- Learn more about invasive species
- Invasive Species distribution and data collection
- Assist with Early Detection & Rapid Response



Species Profiles

European common reed
Phragmites australis ssp. *australis* (Cavanilles) Trinius ex Steudel

European Common Reed

Scientific Name
Phragmites australis (Cavanilles) Trinus ex Steudel ssp. *australis*

Appearance
 Common tall emergent (above water surface), perennial grass growing in dense stands from underground rhizomes.

Stems
 Erect, hollow, 1-4 m tall (approx. 3-12 ft.) and 0.5-1.5 cm thick (up to 2.5 in.); spaces between leaves (internodes) are pale yellow in summer to tan fall.

Leaves
 Bladelets arranged on the stem, flat, long, gradually tapering to a point, 10-20 cm long (approx. 4-10 in.) and 2-4 cm wide (approx. 1-1.5 in.); bottom part of leaf (leaf sheath) wraps around the plant. Spike (inflorescence) at upper edge of leaf sheath somewhat translucent, thin, flaring into short narrow hairs.

Flowers and Fruits
 Flower panicles at tips of branches are dense, 5-20 cm long (approx. 2-12 in.) and 0.20 cm wide (approx. 3/8 in.) of 5-10 flowers. Long soft white hairs give a feathery appearance.

Similar Species
 Subspecies of common reed: *P. australis* ssp. *americanus*, has red or purple internodes at the base of the culm (leaf sheath) in ssp. *australis*.

Habitat
 In shallow waters of wetlands, stream banks, marshes, wet fields and ditches. Tolerant of saline waters.

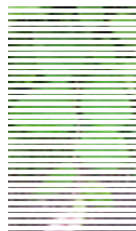
Introduced Range
 In Ontario, in southern Ontario with scattered occurrences as far north as Cochrane and Fort Frances. In Cape Breton, and reported in Newfoundland, New Brunswick, Nova Scotia, British Columbia, Manitoba, Thompson.



What Can EDDMapS do for you?

One-stop shop for invasive species

- Inventory of invasive species distribution
- Learn more about invasive species
- Invasive Species distribution and data collection
- Assist with Early Detection & Rapid Response



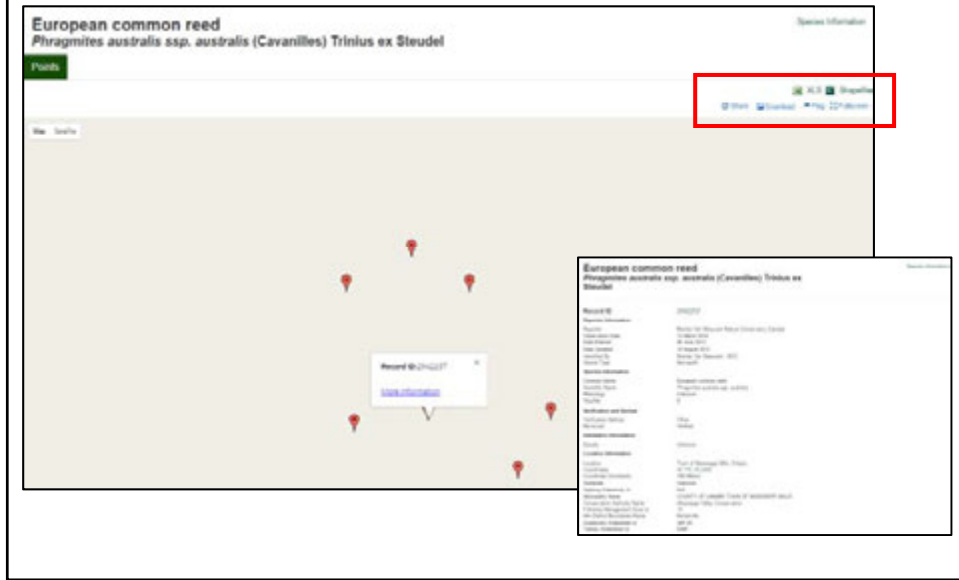
Distribution Maps

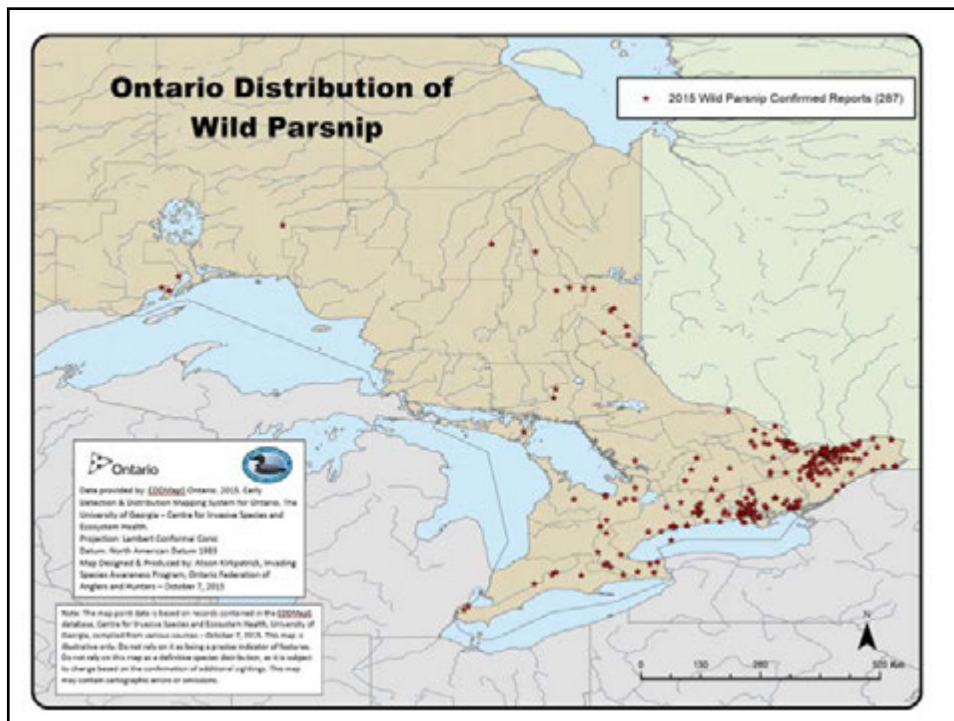


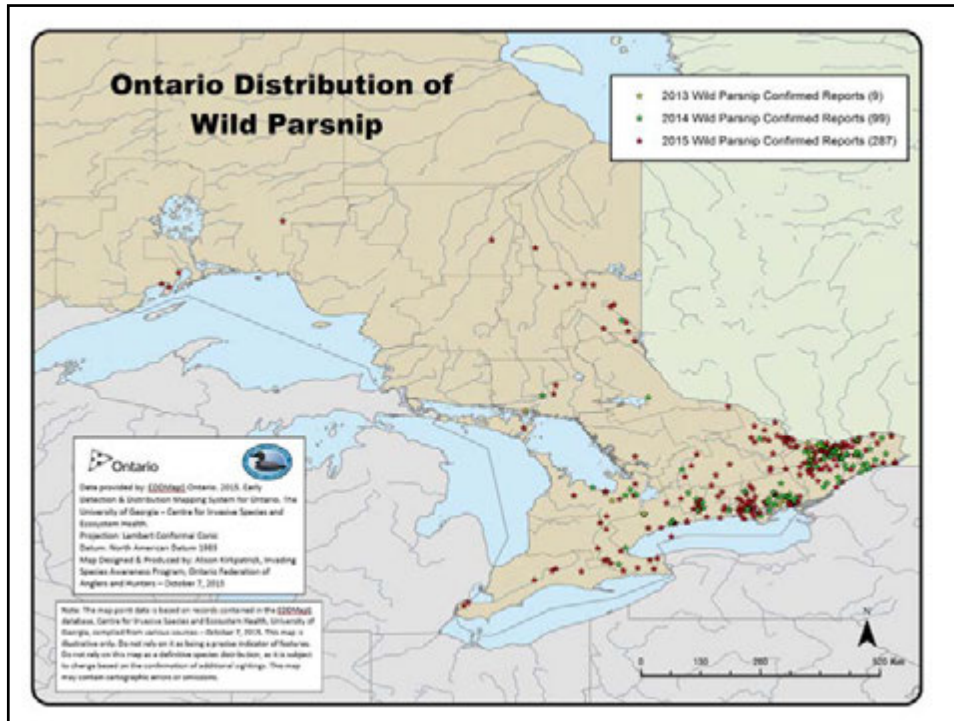
Distribution Maps



Distribution Maps







Query Species by Area

EDD MapS Ontario
Early Detection & Distribution Mapping System

Home Report Sightings Distribution Maps Species Information Queries & Tools Training My EDDMapS About

Query Species by Area

- Waterbody (lakes/rivers etc.)
- Upper Municipalities (Regional/County/District level)
- Lower Tier Municipalities (Township/City level)
- Conservation Authority Geographic Boundaries
- Provincial Parks
- Fisheries Management Zone
- MNR District Boundaries
- Conservation Areas
- Quaternary Watershed
- Tertiary Watershed
- Conservation Reserves
- First Nations Reserves
- Federal Lands

COUNTY OF PETERBOROUGH

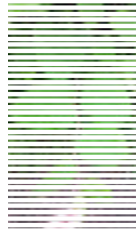
Showing 1 to 14 of 14 entries

ID	Subject	Date
124554	Waterbody (lakes/rivers etc.)	10/20/15
124555	Waterbody (lakes/rivers etc.)	10/20/15
124556	Waterbody (lakes/rivers etc.)	10/20/15
124557	Waterbody (lakes/rivers etc.)	10/20/15
124558	Waterbody (lakes/rivers etc.)	10/20/15
124559	Waterbody (lakes/rivers etc.)	10/20/15
124560	Waterbody (lakes/rivers etc.)	10/20/15
124561	Waterbody (lakes/rivers etc.)	10/20/15
124562	Waterbody (lakes/rivers etc.)	10/20/15
124563	Waterbody (lakes/rivers etc.)	10/20/15
124564	Waterbody (lakes/rivers etc.)	10/20/15
124565	Waterbody (lakes/rivers etc.)	10/20/15
124566	Waterbody (lakes/rivers etc.)	10/20/15
124567	Waterbody (lakes/rivers etc.)	10/20/15

What Can EDDMapS do for you?

One-stop shop for invasive species

- Inventory of invasive species distribution
- Learn more about invasive species
- Invasive Species distribution and data collection
- Assist with Early Detection & Rapid Response



My EDDMapS – Email Alerts

“There’s an App for that”



Smartphone App

The EDDMapS Ontario app brings the power of EDDMapS to your smartphone. Now you can submit invasive species observations directly with your smartphone from the field. These reports are uploaded to EDDMapS and e-mailed directly to verifiers for review.



Download under wifi connection

In Summary - Why Use EDDMapS?

- EDDMapS is fast and easy to use
- Requires no knowledge of GIS
- Web-based mapping of invasive species helps identify leading edges of species distribution and fill gaps in known species ranges
- Helps Early Detection and Rapid Response with online data entry, e-mail alerts
- Data can be searched and downloaded by users
- Affiliated mobile application (Apple & Android)



Questions?

Alison Kirkpatrick
Monitoring & Information Management Specialist

Alison_Kirkpatrick@ofah.org

705-748-6324 ext. 234

EDDMapS Ontario

www.eddmaps.org/Ontario

