





Presentation Outline:

> Background information

➤ Invasive Phragmites Control Centre

➤ Cutting Program



Background Information cont'd

- Perennial grass
- Clones long lived; evidence of persisting >1000 yrs in Europe
- Spreads into new areas through seed dispersal, rhizomes, stolons and stems

Easily establishes in disturbed sites













Background Information cont'd:

- Once established spreads predominantly underground through rhizomes
- Up to ~200 stems/m²
- Rhizomes observed at 10m depths
- Exponential growth in colony size



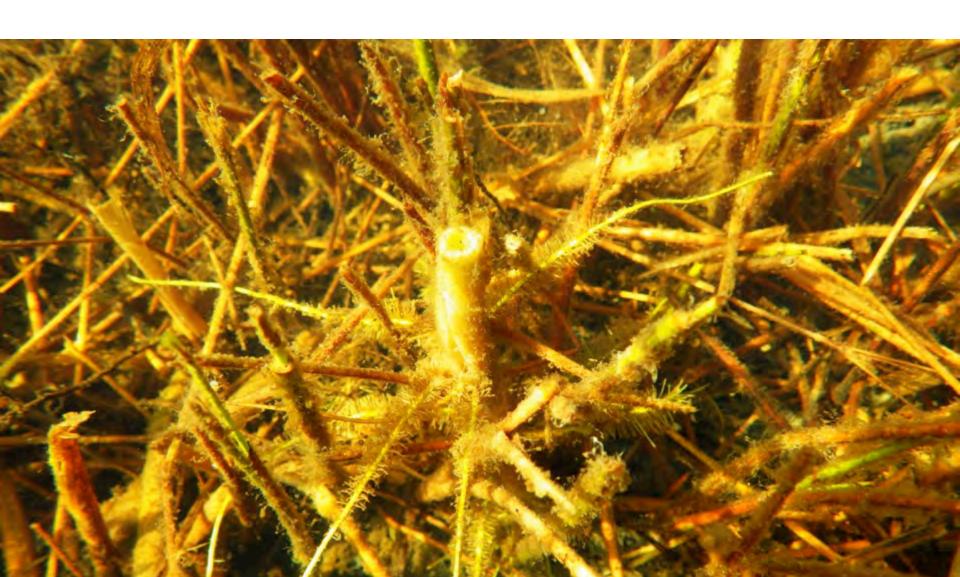


Background Information cont'd:

- Wide tolerance of habitat conditions:
 - brackish to freshwater
 - >1m water depth to >10 m above water table
 - low to high nutrient sites
 - pH 4.8 8.2
 - cool temperate to tropical desert



Cutting to drown



Non-chemical Control Options

> spading



>raspberry cane cutting



Oliphant, Lake Huron, September 26, 2017

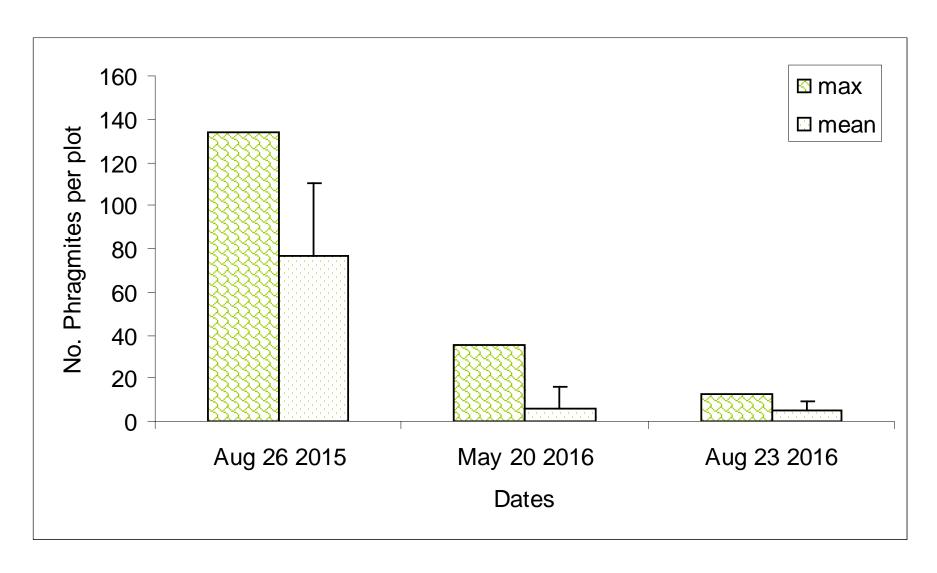








Number of Phragmites plants per plot in August 2015 before cutting, May 2016 after one cutting event and August 2016 after two cutting events.



Invasive Phragmites Control Centre

Est. 2017

- Not-for-profit organization
- > emphasis on promoting site specific, appropriate control actions
- focus on restoring challenging sites (coastal areas, Species at Risk habitat, wetlands)









Invasive Phragmites Control Centre

- 1. Research and Development
- Program Support: monitoring, education, workshops, management plan development, control program management
- 3. Control Services: Herbicide and Cutting



IPCC: Cutting Program

>Truxor amphibious machine



Invasive Phragmites Control Centre Cutting Program

2017

- Wood Drive Coastal Wetland: Lambton Shores Phragmites Community Group
- 2. Lambton Centre
- 3. Kettle and Stony Point First Nation
- 4. Municipality of Kincardine
- 5. Brucedale Conservation Area: Lake Huron Centre for Coastal Conservation/Saugeen Valley CA/ Enbridge
- 6. Oliphant: Bruce Peninsula Biosphere Assoc., Friends of Oliphant
- 7. Manitoulin Is.- Judith Jones, Wiikemkoong FN
- 8. Long Point, Lake Erie (winter cutting)
 - > ~ 140 tonnes cut and removed



IPCC: Cutting Program 2018

➤ 2 Truxors Manitoulin Island, August 14, 2018



Invasive Phragmites Control Centre: Cutting Program

2018

- Wood Drive Coastal Wetland: Lambton Shores Phragmites Community Group
- 2. Lambton Centre
- 3. Kettle and Stony Point First Nation
- 4. Municipality of Kincardine
- Brucedale Conservation Area: Lake Huron Centre for Coastal Conservation/Saugeen Valley CA/ Enbridge
- 6. Oliphant: Bruce Peninsula Biosphere Assoc., Friends of Oliphant
- 7. Manitoulin Is.- Judith Jones, Wiikemkoong First Nation
- 8. Fish Islands, Oliphant
- 9. Nawash First Nation
- 10. Baie du Dore coastal wetland: Bruce Power, Ontario Power Generation
- 11. Honey Harbour: Georgian Bay Forever
- 12. Saugeen First Nation
 - >~ 310 tonnes cut and removed

























> Stihl brush cutters Manitoulin Island, August 13, 2018







































Challenges

- > Water depths: not always sufficient to drown plants
- Lack of Tools: no herbicides available to control Phragmites in wet sites
- Funding: programs cut including National Wetland Conservation Fund (Federal), Great Lakes Guardian (Provincial)
- > Lack of public education/awareness



