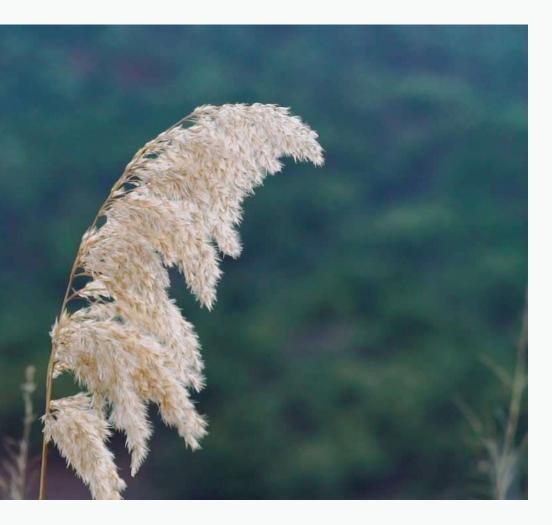


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What are Phragmites?

Phragmites is a species of plant. However, there is an invasive kind that is causing great damage to wetlands, beaches, and biodiversity in Ontario and other places.

It is a perennial grass that is originally from Europe and Asia, although it is unclear how it arrived here.



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Why are they invasive?

There are native phragmites, which are called Common Reed, and then there are invasive phragmites called European Common Reed. The invasive species has certain characteristics that classify it as invasive, which include:

- The ability to spread quickly
- The ability to out-compete neighbouring native species for water and nutrients
- The ability to release toxins from the roots in to the soil which hinders the growth of neighbouring native species
- The ability to grow extremely long roots which allows it to survive in drier areas (can search farther for water)



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What is their impact?

Invasive phragmites pose a dangerous threat to the balance of ecosystems, as their impacts have been seen in many different areas. The impacts include:

- Crowding out native species in an area (taking up too much space), which decreases plant diversity
- Providing inadequate habitat and food sources for surrounding plants and animals
- Depleting overall water levels because it grows quickly and requires a lot of water
- Increasing fire hazards because of a high percentage of dead biomass
- Affecting agriculture, road safety and recreational activities such as boating, swimming and angling

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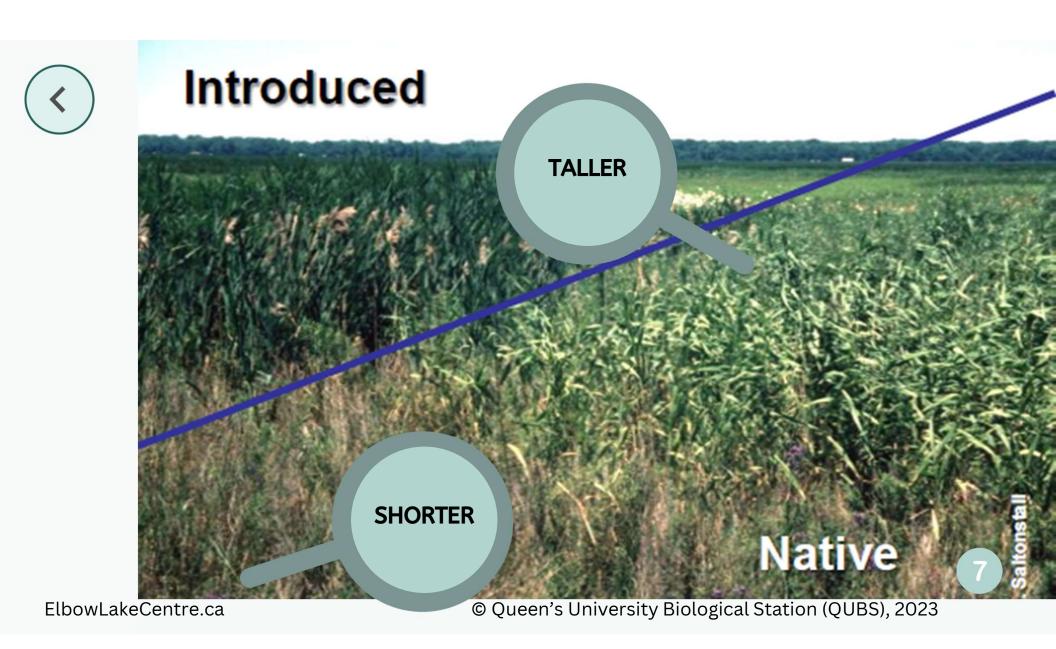
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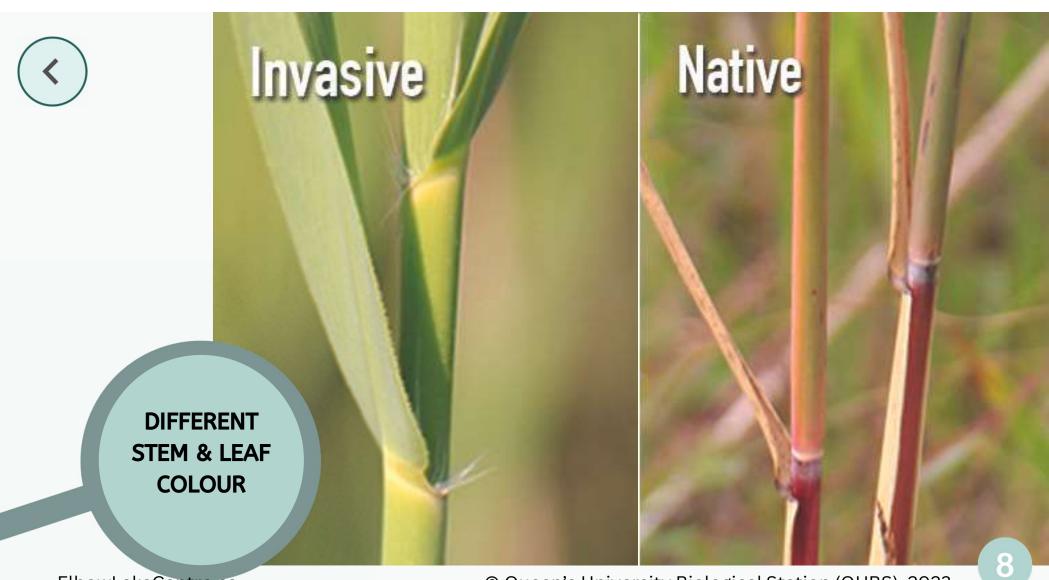
How are they Identified?



Invasive Characteristics	Native Characteristics	
Grow in very dense patches	Less dense	
Can grow to 6 m or higher	Can grow to 2 m	<u>Image</u>
Stems are tan or beige, with blue-green leaves	Stems are reddish brown with yellow-green leaves	<u>Image</u>
Compact and longer seed heads	Open and smaller seed heads	<u>Image</u>

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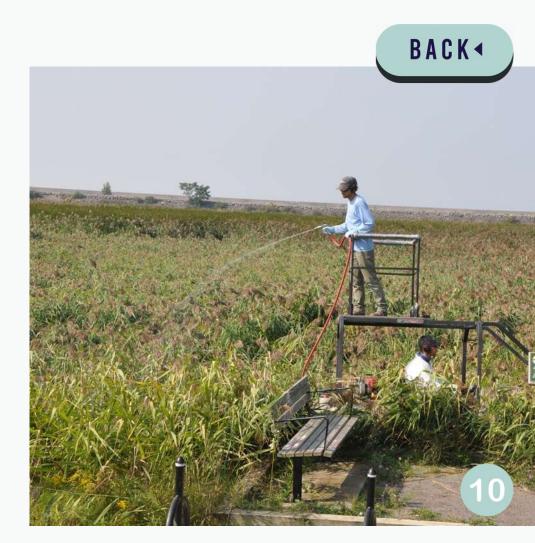
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How are they Managed?

We can all contribute to the management of phragmites by:

- Knowing how to properly identify them
- Avoiding accidentally spreading its seeds by cleaning off shoes, clothing, pets and vehicles
- Avoiding buying and/or composting them
- Being knowledgeable about our local municipality's rules and protocols about invasive species



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Resources on Phragmites

The information provided in this presentation is from the first two following websites. Please check out these resource to learn more!

- Invading Species Awareness Program
- <u>The Conneticiut Agricultural Experiment</u> <u>Station</u>
- Ontario Invasive Plant Council

Photo Credits

Image 1. <u>https://www.ontarioinvasiveplants.ca/invasive-plants/species/phragmites/</u> Image 2. https://www.greatlakesphragmites.net/blog/freshwater-wetlands-fertile-grounds-forthe-invasive-phragmites-australis-in-a-climate-change-context/ Image 3. https://www.torontogardens.com/2014/11/stop-spread-of-invasive-phragmites.html/ Image 4: https://www.greatlakesphragmites.net/blog/native-vs-invasive-phragmites/ Image 5: <u>https://www.greatlakesphragmites.net/management/techniques/</u> Image 6: <u>https://www.invasivespeciescentre.ca/invasive-species/meet-the-species/invasive-</u> aquatic-plants/phragmites/ Image 7: https://nas.er.usgs.gov/queries/greatlakes/FactSheet.aspx?Species_ID=2937 Image 8: https://www.natureconservancy.ca/en/where-we-work/ontario/ourwork/stewardship/fighting-phragmites.html Image 9: <u>http://www.lakeclear.org/terrestrial-invasive-plants.html</u> Image 10: <u>https://www.greatlakesphragmites.net/blog/managing-phragmites-australis-on-corps-</u> of-engineers-ecosystem-restoration-projects/

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