



# Removal of *Phragmites australis* ssp. *australis* and augmentation with native plants in Wisconsin, USA

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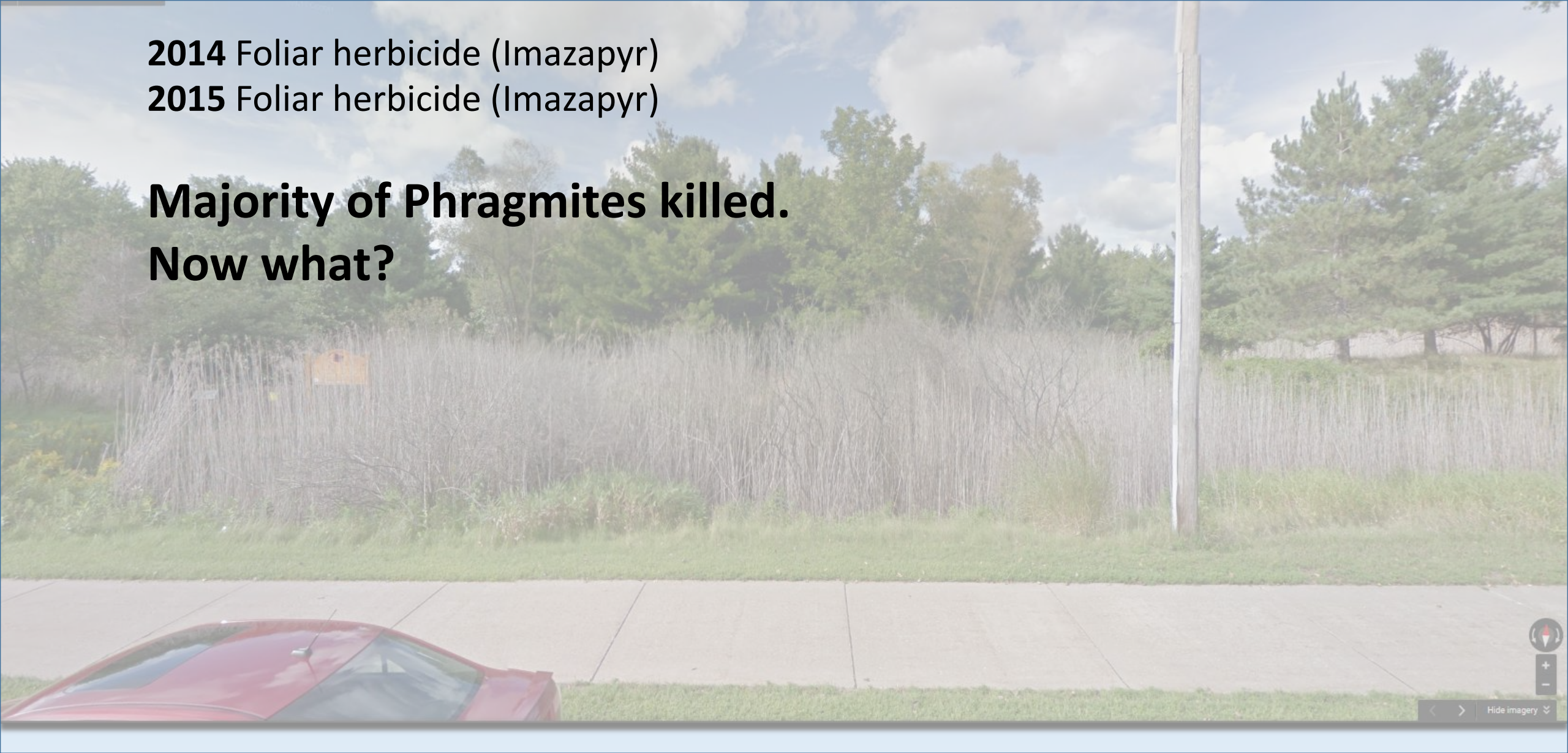


**2014** Foliar herbicide (Imazapyr)

**2015** Foliar herbicide (Imazapyr)

**Majority of Phragmites killed.**

**Now what?**





# Student seedbank study





# Seedbank contained lots of plants but few desirable species

Winter 2015-16





# Spring 2016: Clear out dead Phragmites thatch before planting



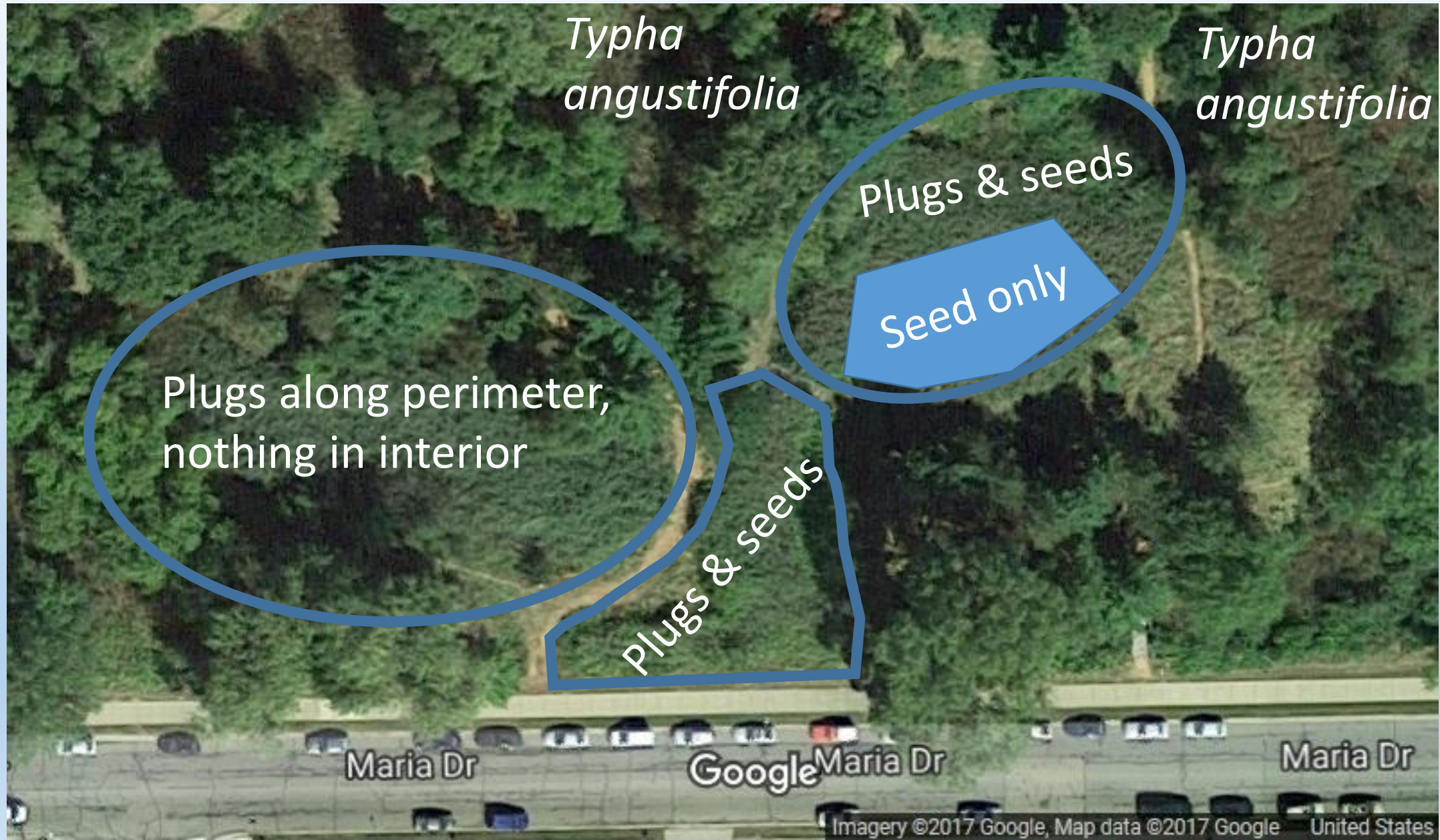


# Spring 2016: Clear out dead Phragmites thatch before planting





# Spring 2016: Split into three treatment areas





June 2016







Deer netting

Very few grasses installed to avoid confusion with Phragmites shoots











# July 2017: Seed-only Area





# July 2017: Seed-only Area





# July 2017: Plugs & Seed Area





# July 2017: Western Area (perimeter only)





# July 2017: Plant Inventory

Species observed: **86**

Planted (seeds or plugs): **45**

“Volunteers”: **41**

(5 invasive = *Typha angustifolia*, *Phragmites australis*, *Frangula alnus*, *Lythrum salicaria*, *Phalaris arundinacea*)

6 other non-native species



# October 2017: Plugs & Seed Area





# Beginning to test simple hand removal against spade-cutting (Webinar by Lynn Short, Humber College)





Beginning to test simple hand removal against  
spade-cutting





# Current UW-Stevens Point Student Projects

- Manual removal via spade vs. hand-pulling – Dylan Alsbach
- Seed vs. seed + plug (quadrats) – Michala Feigal
- Selective Imazapyr via “bloody glove technique” – Emily Gryga





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