



# Control of Phragmites with Arsenal® Powerline and Habitat™ Aqua

Phragmites Working Group,  
Waterloo ON, 29 January 2018  
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# Habitat™ Aqua Herbicide

## Research Update

- This product is currently being assessed for registration under the Pest Control Products Act.
- The information presented here is for research purposes only.
- The product cannot be manufactured, imported, distributed or used in Canada at this time, unless explicit authorization has been obtained from Health Canada to use this product for the purpose of conducting research under the Pest Control Products Regulations.

# Arsenal<sup>®</sup> Powerline<sup>™</sup>

Herbicide

- ▶ Registered in 2016 for terrestrial uses (roadsides and other non-agricultural lands)
- ▶ Contains ***imazapyr***
  - Acts on an enzyme found only in plants
  - Applied in late summer - early autumn
  - Highly systemic
  - Long history of use in USA

# Arsenal Powerline™

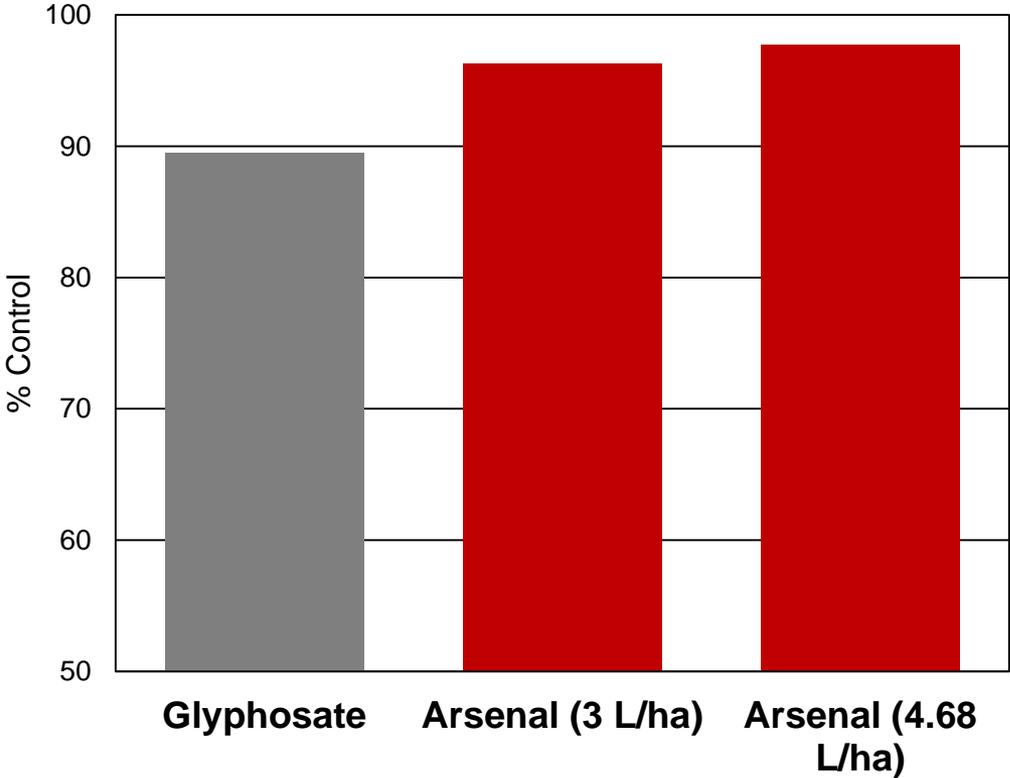
Herbicide

- Application in treatment year are translocated to roots
- Target vegetation does not re-grow, or biomass is greatly reduced in year following treatment
- Non target native vegetation repopulates treatment area



Photo: Dog strangling vine. Cain Vegetation research trial (2014)

# Phragmites control 1 year after treatment Chatham ON (2016)



Source: BASF, 1 year after treatment, Chatham ON (2016)

**Arsenal<sup>®</sup> Powerline<sup>™</sup>**  
Herbicide



# Establishment of native species 1 – 2 years following treatment



Photo: BASF. 1 year (left) and 2 years (right) following application of 3 L/ha Arsenal Powerline. Chatham ON (2017)

# Application Tips

- Do NOT apply if surface water is present and do NOT apply to ditches used for irrigation
- Timing: mid to late summer (until ~50% colour change)
- Ensure excellent coverage; do not spray to run-off
- Do not enter treated areas until spray has dried
- Dense infestations will likely require supplemental treatment

# Habitat™ Aqua

- **Registration submission** made to the Pest Management Regulatory Agency of Health Canada in mid 2015
  - ▶ All questions answered and awaiting a PMRA decision
  
- **Emergency Uses** granted for ground applications to water:
  - ▶ Spartina spp in British Columbia, 2013 – present (operational)
  - ▶ Flowering rush in Alberta, 2016-present (research only)
  
- **Research Authorization** approved for:
  - ▶ Aerial application for over-water use to help manage Phragmites
    - Potential operational use on Fighting Island (near Windsor) in 2018 for demonstration purposes (TBD pending PMRA and Provincial approvals)

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