

We create chemistry

Control of Phragmites with Arsenal® Powerline and Habitat™ Aqua

Phragmites Working Group, Waterloo ON, 18 January 2018

Scott MacDonald

ARSENAL is a registered trademark of BASF Corp. **HABITAT** is a trademark of BASF Corp used under license by BASF Canada Inc.



Arsenal Powerline

Herbicide

- Registered in 2016 for control of Phragmites in <u>terrestrial</u> areas (roadsides and other non-agricultural lands)
- Contains imazapyr
 - Acts on an enzyme found only in plants
 - Highly systemic
 - Disrupts protein synthesis in roots and shoot
 - Applied in late summer early autumn
 - Long history of use in USA



Arsenal Powerline

Herbicide

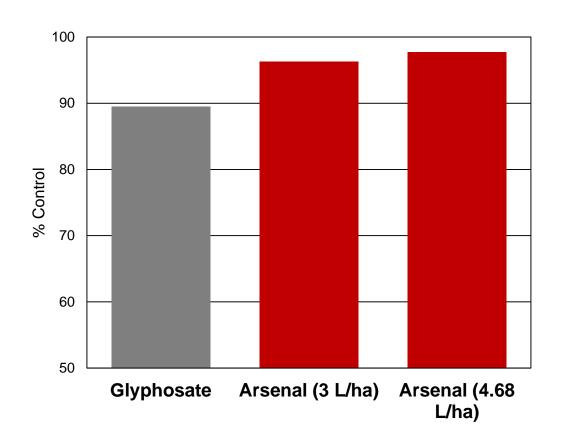
- Application in treatment year are translocated to the roots of Phragmites
- Vegetation does not regrow and/or biomass is greatly reduced in the year following treatment
- Non target native vegetation re-populates treated area in years following treatment



Photo: Control of dog strangling vine. Two year following treatment. Cain Vegetation research trial, Orono ON (2010)



Phragmites control 1 year after treatment Wyoming ON (2015)





Source: BASF, 1 year after treatment with Arsenal Powerline at 3 L/ha, Wyoming ON (2015)





Establishment of native species following treatment, Wyoming ON (2016-2017)



Photo: BASF. 1 year (left) and 2 years (right) following application of 3 L/ha Arsenal Powerline. Wyoming ON (2016, 2017)





Habitat™ Aqua Herbicide

Research Update

- This product is currently being considered 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.



Habitat™ Aqua

- **Registration submission** made to the Pest Management Regulatory Agency of Health Canada in mid 2015
- **Emergency Uses** granted for ground applications to water:
 - Spartina spp in British Columbia, 2013 present (operational)
 - Flowering rush in Alberta, 2016-present (research only)
 - Phragmites on CPRS rights of way in Alberta, 2016 (operational)
- Research Authorization submitted 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)



Thank you

For more information, contact: Bradley.Hayhoe@basf.com Market Manager, Professional Solutions



We create chemistry

