## Perennial grains soon to be in our fields and on our plates - a first in Canada!

**Agro-ecosystem Benefits Compared To Annual Cereals** 

## **Decreased**

Seeding costs:
Seed once every
5-6 yrs

Tillage & soil

disturbance

Soil erosion

Nutrient leaching risk

Greenhouse gas emissions with reduced farm equipment use

Increased

Soil health attributes

tes recapture ability

Carbon sequestration

Long-term carbon storage

**Nutrient** 

Root activity in the soil to promote healthy microbial ecosystems

## **Research Questions To Be Answered**

IWG as a dual-purpose crop to provide a cash food grain crop and high quality forage for grazing beef cattle in late fall/early winter in Canada

- Agronomic, soil productivity and cattle performance of the dual purpose integrated system
- Habitat suitability for songbirds and nesting waterfowl
- Whole-system environmental footprint of integrated grain production and cattle grazing
- Economic potential to provide grain crop and cattle feed in the same growing season



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