



Advancing Agriculture through Research



Vision & Mission

Vision: Profitable and sustainable western Canadian grain farmers.

Mission: Producers directing investments into crop research to benefit western Canadian grain farmers.

WGRF Overview

- **Federally Registered NFP. Charitable Status**
- **Board of Directors = 18 farmers**
- **Research funding focus**
- **\$15M Five-year average funding**
- **172 Projects, 15 Crops, 5 Clusters**
- **Capacity funding**
- **\$53M Research Funding Next Four Years**

Research Focus

Eligible crops:

Major crops: barley, canola, lentil, pea, wheat

Intermediate crops: canaryseed, chickpea, corn, fababean, flax, mustard, oats, soybean, sunflower, winter cereals

Priority Funding Areas



Variety development

e.g. genetics, breeding methods, pre-breeding, breeding, pest resistance development, breeding for crop quality, variety trialing



Production

e.g. cropping systems, crop nutrition, pest (insect, disease, weed) management, production management, water use efficiency, fertilizer use efficiency, adaptation to and mitigation of climate change, crop quality, storage, storage pests, economic analysis

Funding Process

- **Participate in established, science-based competitive processes consistent with WGRF research priorities**
- **WGRF does not accept research proposals directly**

ACCELERATING CAPACITY



**Research Chair in Cropping Systems
(Dr. Linda Gorim)**



**Systems/Integrated Agronomy Chair
(Dr. Maryse Bourgault)**



**Two Research Chairs
(Dr. Mario Tenuta and TBD)**

ACCELERATING CAPACITY



- Phase 2 launched in April 2019
- \$24 M to expand research capacity (equipment & infrastructure)





**\$300,000/yr
in Graduate
Scholarships**



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ALBERTA**



**UNIVERSITY OF
SASKATCHEWAN**



**UNIVERSITY
OF MANITOBA**



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[soils and fertility](#)

In-crop N application to wheat

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Current Clusters (2018-2023)

- **WGRF invested in 5 Clusters**
- **Leading Integrated Crop Agronomy Cluster**
- **11 industry partners & AAFC**
- **\$9 M over five years**
- **3 cross cutting themes: Resiliency to Climate Change, Sustainable Cropping Systems and Knowledge & Technology Transfer**

Integrated Crop Agronomy Cluster



MANITOBA
CROP
ALLIANCE



Brewing and Malting
Barley Research Institute



Manitoba
Canola Growers



Agriculture and
Agri-Food Canada






Integrated Crop Agronomy Cluster

- **Cropping systems and crop sequencing**
- **Pest threats: insects, weeds and diseases common to multiple crops**
- **Reducing risks associated with sprayer technologies**
- **Knowledge and technology transfer**



GET WEEKLY PRAIRIE INSECT INFORMATION

Crop insect and wind forecasts, risk maps and protocols.

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WEEKLY UPDATE 2020

SUNFLOWER & TRITICALE PESTS (WEEK 18)

As the growing season winds down, we are wrapping up our summer series with an Insect of the Week doubleheader: one post featuring both sunflower and triticale pests! Sunflowers are an eye-catching

INSECT RISK MAPS

Bertha armyworm

Cabbage Seedpod Weevil

Grasshoppers

Pea leaf weevil

WGRF Looking Forward

- **\$53M Research Funding Next Four Years**
- **Projects, Programs, Infrastructure and Clusters**
- **Future changes in crop production on prairie farms and implications for research**
 - **Amaethon Report (on WGRF website)**
 - **Survey of 187 participants**
 - **Additional consultations summer/fall 2021**



Thank you

*Garth Patterson, M.Sc. P Ag
Executive Director*