

#### Improving canola agronomy with third-party and farmer-run research

Clinton Jurke, MSc PAg Canola Council of Canada



**KEEP IT COMING** 



## canolacouncil Who is the Canola Council of Canada?

#### Growers

#### **Life Science**







#### International canola/rapeseed production









#### 52 by 2025: How we'll get there

#### OUR TOOLS FOR INCREASING YIELDS:

Harvest Management +2BU -

Integrated Pest Management — +2BU -

Plant Establishment +3BU

Genetic Improvements +8BU -

3-YR AVERAGE YIELDS

-281 \*2BL 3BIL \*3BI **41**BU

CURRENT

(2016 - 18)

34BU (2011-13)



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#### How to improve agronomic practices?





### **Ultimate Canola Challenge (UCC)**

 Model best management practices for improved canola agronomy







# 2013-2014

- Small plot trials
  - 14 site-years of data
- Examined value of:
  - Boron
  - Other micronutrient packages
  - 25% more nitrogen







Harker & Hartman, 2016





Yield (kg/ha)

Harker & Hartman, 2016



#### 2015

- Small plot trials
  - 3 locations
  - 4 boron products
- Farmer-run strip-trials.
  - 2 to 5 replications
  - 5 locations
  - Single boron treatment vs check





Check (no\_Boron)
Nexus (5% flower)
Microbolt B (4-6 leaf)
SuperB (5% flower)
Nexus + fungicide (30% flower)

















# 2016-2017

- Farmer-run strip-trials.
  - 4 reps
  - 17 site years
- Adding 25% more nitrogen









#### 2018

- Farmer-run strip-trials.
  - 1 to 4 replications
  - 18 locations
- Comparing seeding speeds





CANOLA







## What is good-quality information?

- Do farmers value research?
  - Most product are sold on testimonials
  - Agronomist influence on farmers decisions is very high.
- UCC has been a program to promote the value of replicated, third-party, peer-reviewed published data over biased information



## Which data to trust?



- 3<sup>rd</sup> party data multiple sites & published
- 3<sup>rd</sup> party data multiple sites
- Private data multiple sites
- Private data few sites
- Testimonials





### Conclusions

- To change agronomic behaviour, farmers need to see farmers modelling these changes
- Farmer-run strip trials have been a very useful tool to promote improved productive, profitable, and sustainable agronomic choices
- The industry needs to continue to support and educate the value of good quality data/information



# CANOLA CHALLENGE