

# Personal Experiences with On-Farm Research

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**Manitoba Potato Production Days 2015**



# Overview

- I. Why we decided to ramp-up our on-farm research program**
- II. On-farm procedures and protocols**
- III. An example of the potential results of on-farm research**
- IV. Introduction to the idea of *Agritruth.ca***
- V. Questions**



# I. Why We Decided to Ramp-Up Our On-Farm Research Program

# I. Why We Decided to Ramp-Up Our On-Farm Research Program

1. Lack of independent, scientific *product* testing
2. Changes to CFIA efficacy testing
3. MCVET results not transferring to our environment
4. Unable to find data to answer questions
5. Technology facilitates trials and data collection
6. Industry recommendations can be broad

## II. On-Farm Procedures and Protocols



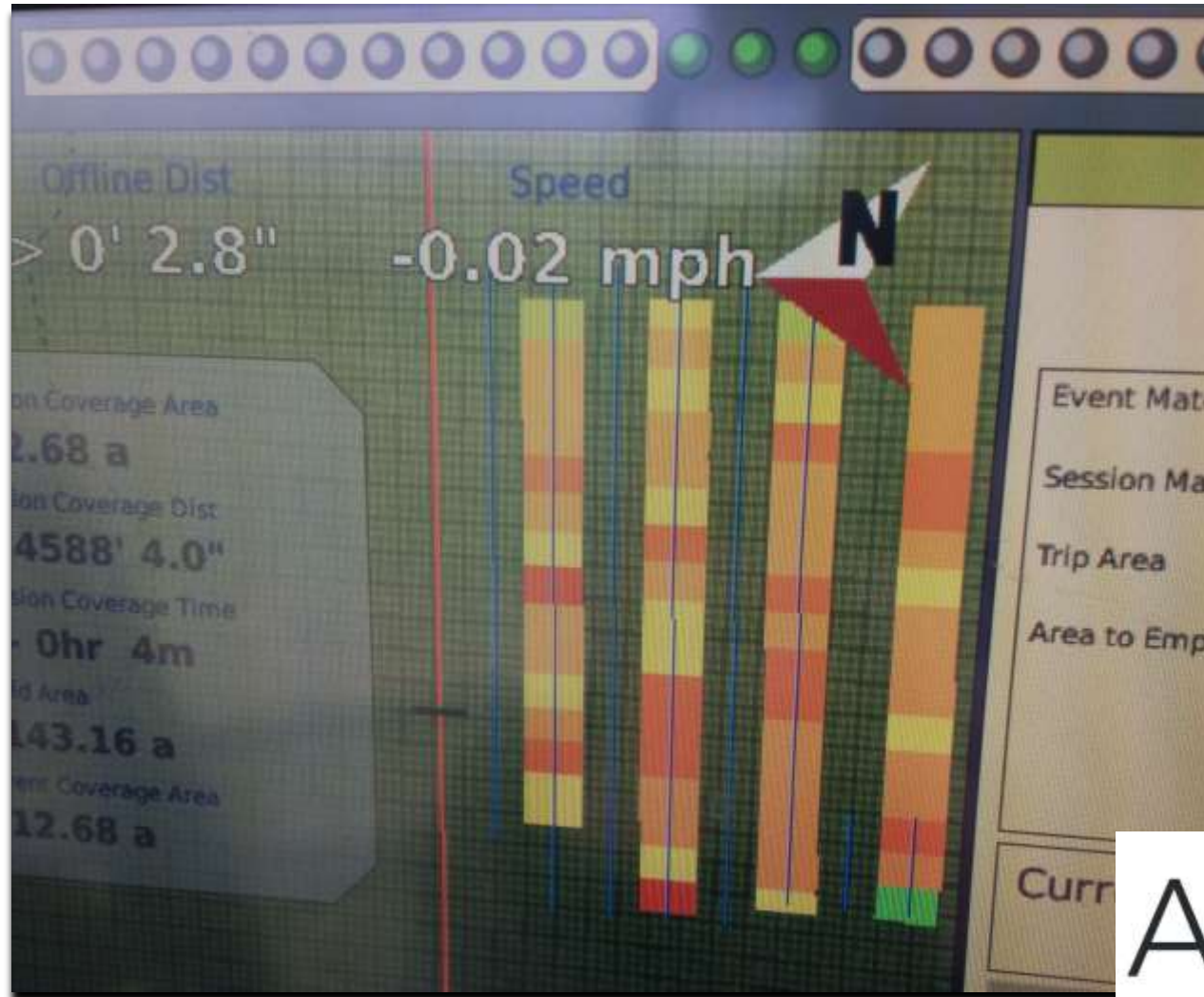
# II. On-Farm Procedures and Protocols

## 1. *Plan Ahead*



# II. On-Farm Procedures and Protocols

1. Plan Ahead
2. *Replicate*

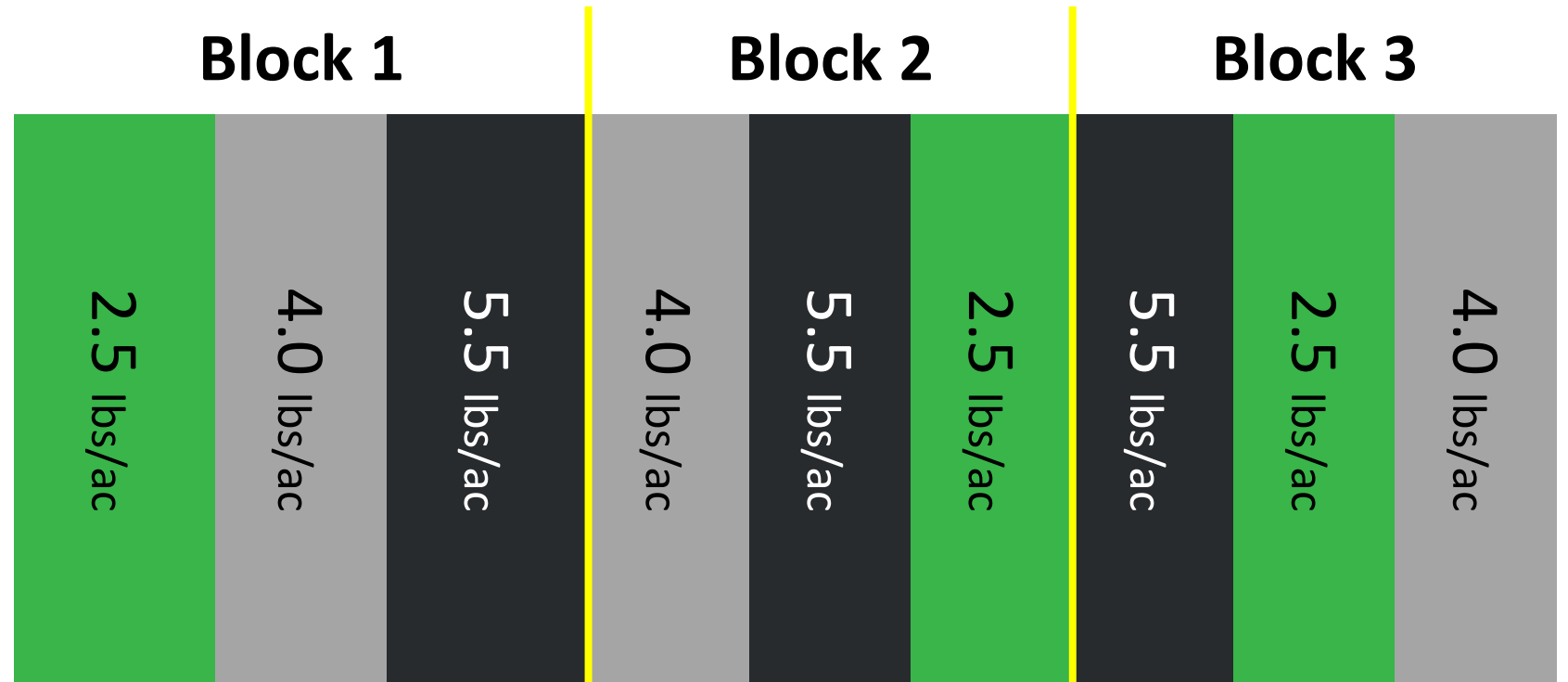


# II. On-Farm Procedures and Protocols

1. Plan Ahead

2. Replicate

3. *Randomize*





# II. On-Farm Procedures and Protocols

1. Plan Ahead
2. Replicate
3. Randomize
4. ***Statistically Analyze Information***



Yield Data:

220,000 plants/acre

bu/ac

51.6

170,000 plants/acre

bu/ac

52.1

*p value = 0.53* *LSD = 1.80*

## II. On-Farm Procedures and Protocols

1. Plan Ahead
2. Replicate
3. Randomize
4. Statistically Analyze Information
5. *Use Weigh Wagon*



# II. On-Farm Procedures and Protocols

1. Plan Ahead
2. Replicate
3. Randomize
4. Statistically Analyze Information
5. Use Weigh Wagon

## 6. *Collect Samples*



# II. On-Farm Procedures and Protocols

1. Plan Ahead
2. Replicate
3. Randomize
4. Statistically Analyze Information
5. Use Weigh Wagon
6. Collect Samples
7. *Repeat trial*





# III. An Example of the Potential Results of On-Farm Research

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## 1. Question:

What is the most economic seeding rate for canola with a terrain following opener in a no-till inter-row seeding environment?

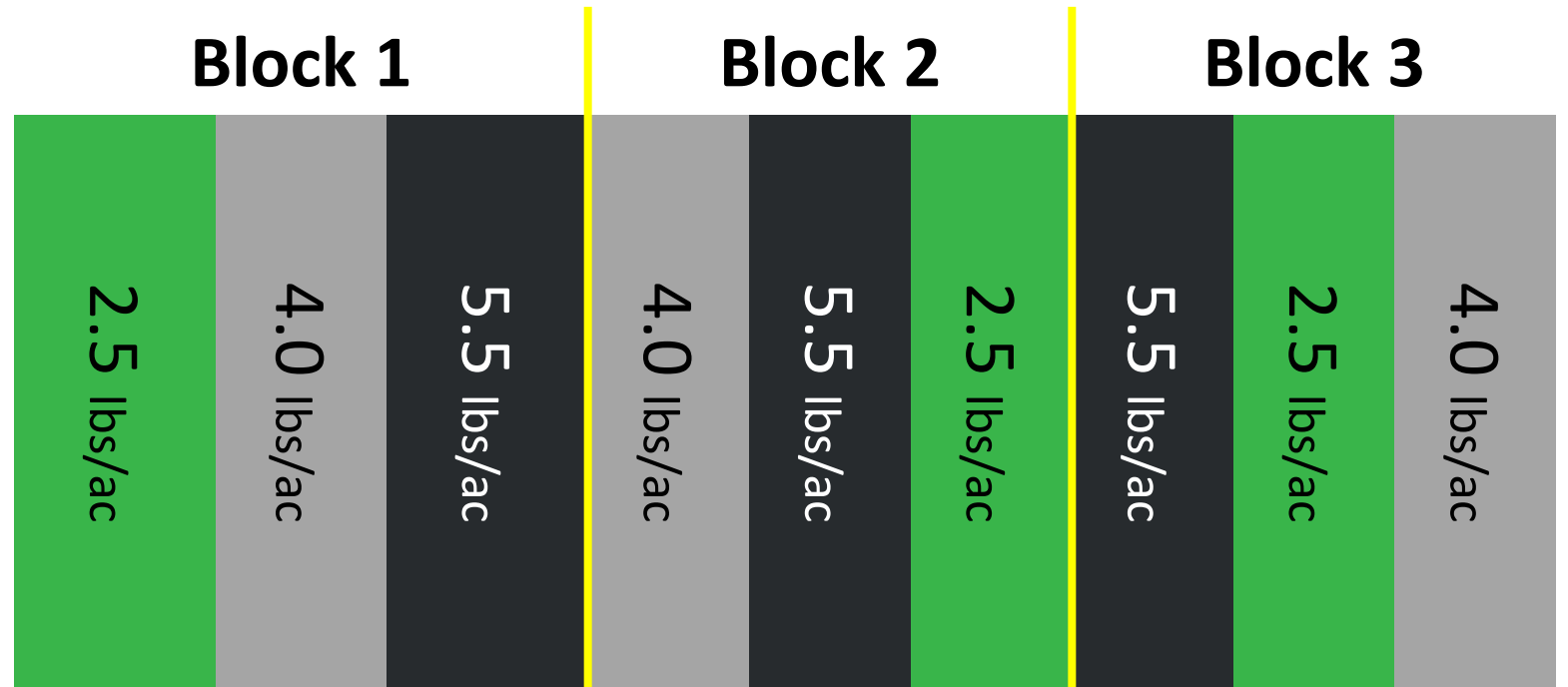


# III. An Example of the Potential Results of On-Farm Research

2. Current Practice

3. Consideration

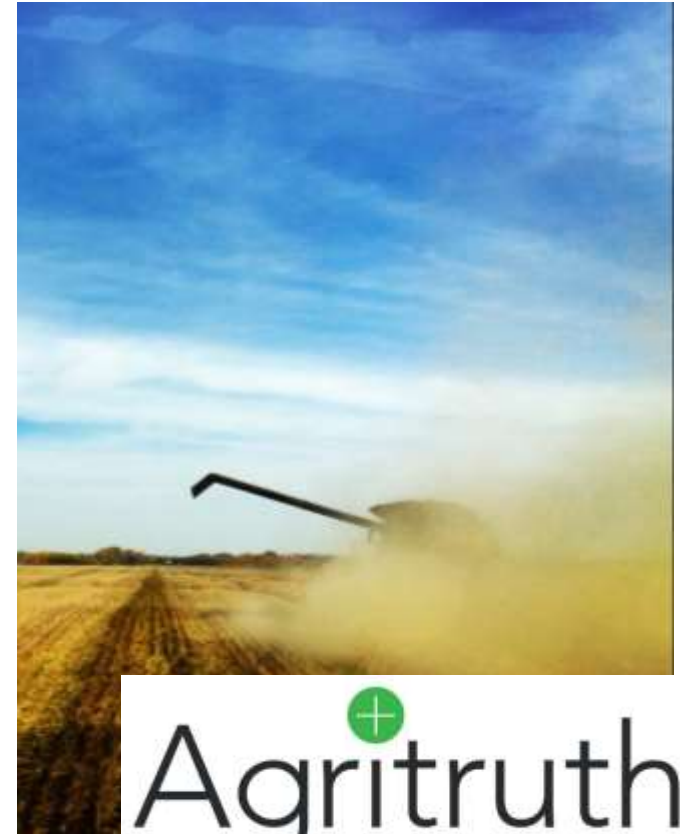
4. Procedure





# III. An Example of the Potential Results of On-Farm Research

## 5. Methods





# III. An Example of the Potential Results of On-Farm Research

## 6. Observations

## 7. Conclusion

## 8. Economics

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	2.5 lbs/ac	<b>4.0 lbs/ac</b>	5.5 lbs/ac
<b><i>Yield (bu/ac)</i></b>	59.5	<b>63.1</b>	63.7
<b><i>Price (\$/bu)</i></b>	\$11.00	<b>\$11.00</b>	\$11.00
<b><i>Treatment Cost (\$/ac)</i></b>	\$27.50	<b>\$44.00</b>	\$60.50
<b><i>Gross Revenue (\$/ac)</i></b>	\$627.00	<b>\$650.10</b>	\$640.20

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## IV. Introduction to the Idea of *Agritruth.ca*

# IV. Introduction to the Idea of Agritruth.ca

- 1. Independent agronomic research company**
- 2. Trials are scientific, field-Scale, and repeated**
- 3. Statistically analyse information**
- 4. Offer an economic analysis**
- 5. Members participate in polls**
- 6. Access to growing database**



**Welcome to Agritruth**

Your source for independent agronomic data.

Sign Up Today!

*[agritruth.ca](http://agritruth.ca)*





# V. Questions

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