Power up your farm business



Farm & Food Care - Guelph April 7th, 2016

What or who is VERITAS?

- Adding value through information
 - 6 years of operations
 - 2 offices (Chatham and Parkhill)
 - Focus on research, education, business, agronomy, precision ag



How VERITAS Thinks

Innovate

• "A good hockey player plays where the puck is. A great hockey player plays where the puck is going to be."

Wayne Gretzky

Make it easy

 "Simple can be harder than complex: You have to work hard to get your thinking clean to make it simple. But it's worth it in the end because once you get there, you can move mountains."

Steve Jobs

Measure the value

"What gets measured, gets managed"

Peter Drucker



Sustainable Cropping Systems

- Nitrogen Use Efficiency
- Utilizing Cover-crops
- Measuring the benefit of Strip-till
 - Phosphate management
 - Best Management Practices development
 - ROI for farmers
- NOT equipment brand specific
- Understanding the science of strip tilling
- A bit more about strip till ...







Research Objectives

- Does strip till impact nutrient availability?
 - Phosphate & Potassium
- Can strip till improve nutrient used efficiency?
 - What is NUE?
- Does strip till make economic sense?
- How does strip till impact phosphate mobility?
 - Within the soil
 - Over time
 - Within the environment



Research Protocol

- 2 crop years (Autumn 2015 Autumn 2017)
- 10 sites across 7 counties
- Farmer standard vs strip (2 reps of each)
- 4 fertilizer application rates
- 3 Management zones per replication
 - Based on yield potential
 - Developed from historical yield data & imagery
- Georeferenced & calibrated yield data







Testing Schedule

- Geo-referenced points to reduce spatial variation
 - 5 ac zone sampling (one time only)
 - Solvita soil health 48 samples/site/year
 - Pre-application soil nutrient baseline 48 samples/site/year
 - 3 week post application soil nutrient 72 samples/site/year
 - Pre-planting soil nutrient 72 samples/site/year
 - Post planting soil nutrient 72 samples/site/year
 - Post planting tissue testing 48 samples/site/year
 - Physiological maturity soil nutrient 72 samples/site/year
 - Physiological maturity tissue testing 96 samples/site/year



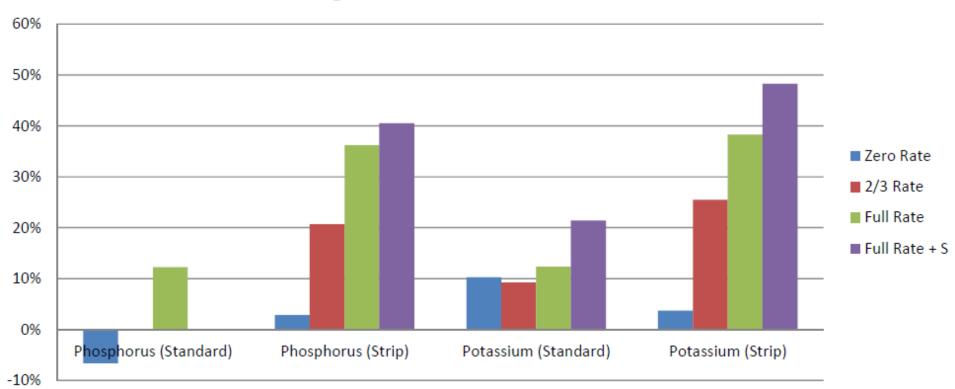
Total Testing Data Points

- 960 Solvita soil health tests
- 4800 soil nutrient tests
- 1440 tissue tests
- Comprehensive statistical analysis
 - Paired t-test
 - Toukey test
 - ANOVA analysis



Results to Date

% Change in Baseline vs 3 Week Levels





Thank you to project supporters

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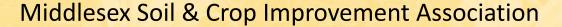








Grain Farmers of Ontario







Questions?

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