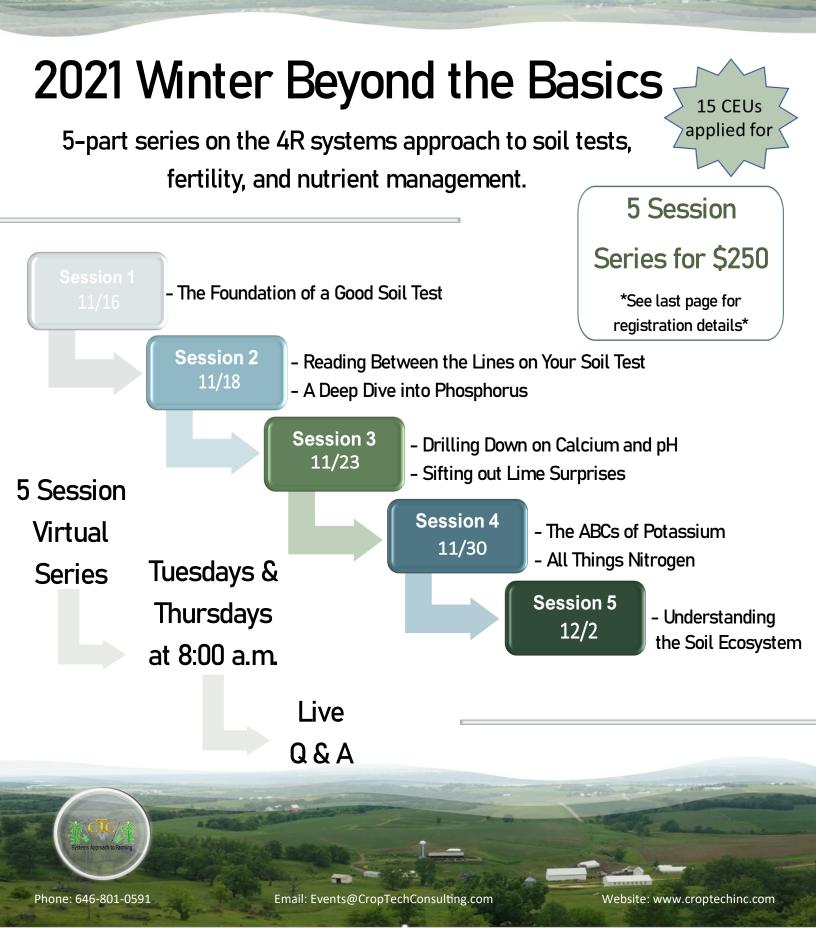
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Beyond the Basics

Session 1 – Tuesday, November 16, 2021

The Foundation of a Good Soil Test

- $\Rightarrow~$ Major schools of thought for how to pull samples and write recommendations
- \Rightarrow What method Crop-Tech uses and why
- \Rightarrow What the soil test can tell you
- \Rightarrow Why we build zones in a field, and how that plays into a systems approach
- ⇒ Using layers of data to build your zones (aerial, LiDAR, yield maps, soil lines)
- \Rightarrow The importance of knowing before making a recommendation:
 - * How the sample was pulled
 - * When the sample was pulled
 - * What lab ran the test, and what extraction method was used

What units are the results reported in

Each session will start at 8:00 a.m. and, depending on Q and A, will last around 3 hours

Session 2 – Thursday, November 18, 2021

Reading Between the Lines on Your Soil Test

- ⇒ How to read the values reported and how to interpret them to make the best management decisions regarding:
 - * Organic Matter
 - * Cation Exchange Capacity
 - * P1 and P2
 - * Base Saturation
 - ∗ pH

A Deep Dive into Phosphorus

- ⇒ Availability in the soil, and the plant uptake process
- $\Rightarrow~$ What role it plays in the plant
- ⇒ Phosphorous tie-up and what that changes in terms of management
- \Rightarrow All things starter fertilizer

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Beyond the Basics

Session 3 –Tuesday, November 23, 2021

Drilling Down on Calcium and pH

- ⇒ Availability in the soil, and the plant uptake process
- \Rightarrow What role it plays in the plant
- ⇒ How to use the pH values on a soil test to decide when, how much, and what type of lime to apply
- \Rightarrow What can cause false or varying pH results

Sifting out Lime Surprises

- \Rightarrow How to evaluate a lime source
- ⇒ Vocabulary for understanding acronyms on a lime sample
- ⇒ How lime quality standards differ between states.
- ⇒ Why a good spread pattern matters and overcoming obstacles to achieve it.

No Session on Thursday, November 25th (Thanksgiving)

Session 4 – Tuesday, November 30, 2021

The ABCs of Potassium

- \Rightarrow Availability in the soil and what affects it
- \Rightarrow Plant uptake process and what impedes it
- \Rightarrow What role it plays in the plant
- ⇒ What causes a K+ deficiency, how to identify it, and what it does to the plant
- ⇒ Effects of an abundance of K+ creating imbalances in the soil

Live Q and A each session. (No camera or microphone required)

All Things Nitrogen

- ⇒ Different sources: Ammonium Nitrogen (NH₄⁺), Nitrite (NO₂⁻), Nitrate (NO₃⁻)
- ⇒ The conversion process between the different forms, and factors that influence it
- ⇒ What source the soil microbes like best, and what the plants use most efficiently
- ⇒ How and when to protect against volatilization and leaching
- ⇒ Nitrogen Extenders
- ⇒ Illinois Soil Nitrogen Test (ISNT) and how we use it to variable rate Nitrogen
- ⇒ VRT Nitrogen and it's affect on soil health and organic matter

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Beyond the Basics

Session 5 – Thursday, December 2, 2021

Understanding the Soil Ecosystem

- \Rightarrow Examining soil microbes' role in growing a crop
 - * Heterotrophs vs autotrophs
 - * Bacteria and fungi, small particles with big roles
 - * Stages of organic matter
 - * The carbon cycle and the importance of the carbon to nitrogen ratio
 - * Nutrient cycling-what is involved and when do you see returns

Details

- Sessions will be on Tuesday and Thursday starting on Tuesday, November 16th and will run for 2.5 weeks (11/16, 11/18, 11/23, [Skip Thanksgiving], 11/30, 12/2)
- Each session will start at 8:00 a.m. and, depending on the live Q and A, will last around 3 hours
- Each session will be posted by the next day for review, accessible to registrants via a password.
 Materials will be left up for two weeks following the last session (Material comes down December 16th)
- The virtual meeting will be on the WebinarJam platform. No camera or microphone needed. Attendees can submit typed questions during the meeting via the chat box.

To Register Visit:

crop-tech-consulting-inc.ticketleap.com/2021beyond-the-basics/

We are applying for 15 CEU credits for the series. There must be a registration for each person submitting a CCA number to the sign-in sheet. Per organization guidelines, those that watch it live can be included on the sign-in sheet. Those that watch the recording later can self-report the credits.

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