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Date: Fri, Nov 4, 2022 at 2:13 PM  
Subject: trials  
To: Joshua Day Chief <joshua@advancedag.ca>

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Hello, AdvancedAg (Joshua Day Chief),

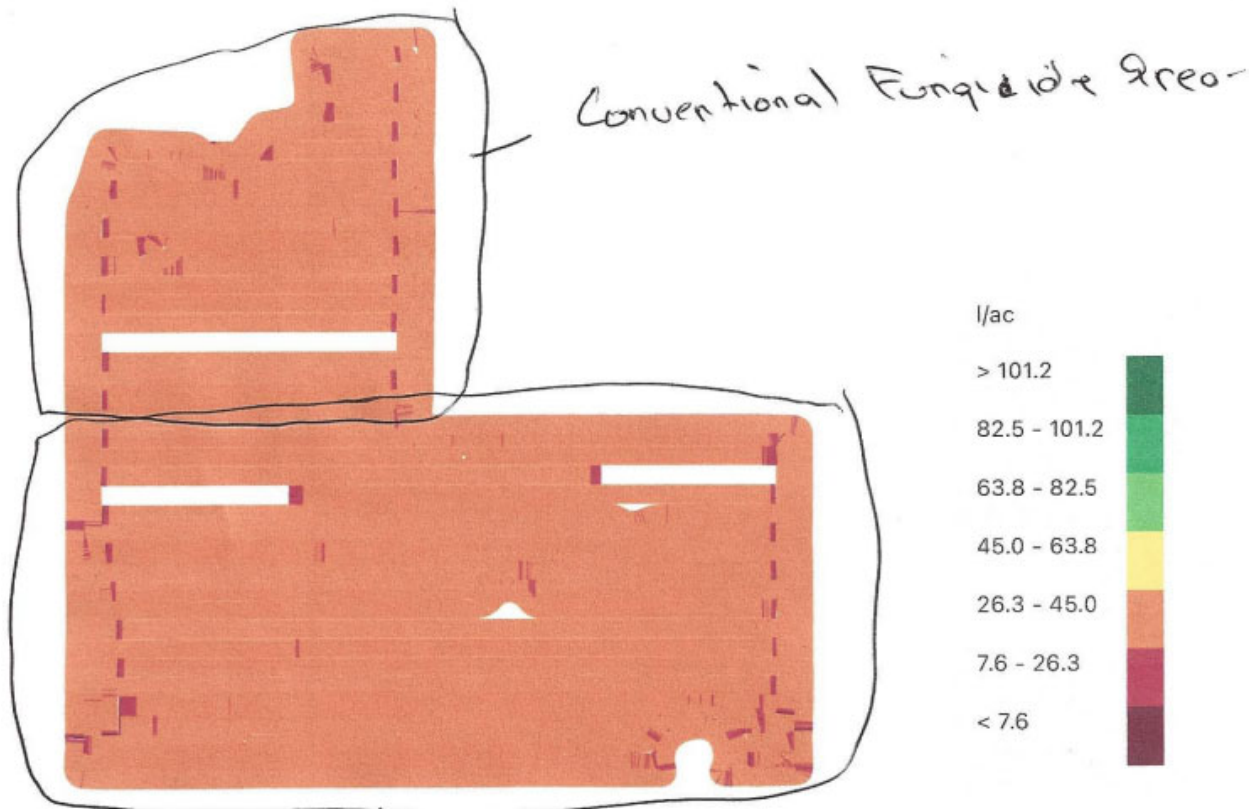
I'll do my best to explain each trial data. I've broken each file into the two trials we did

- The chickpeas is it's own trial.
- Lentils were within 1/4 mile of each other and had same amount of rain.

### Chickpea trial:

The land was broken into two parts which i circled for you.

logan farms • 2021 • 2022 Chickpea • 449.3 ac



ACF-SRP applied around the bottom location (449 acres total between conventional fungicide and ACF-SRP dose)



We had a major rain event on July 3 of about 3" of rain. This was the beginning of disease on our farm and the major contributor to Aphanomises root rot. We knew on July 3 we had disease in our chickpeas so brewed ACF-SRP to use on July 7.

Results: The ACF-SRP was significantly lower cost to use compared to conventional fungicides.

*Note from TLC: ACF-SRP is intended for plant growth promotion plus enhanced phosphorous solubilization. Some users such as this farm report superior crop health, even when eliminating conventional fungicides.*

We did see significant better plant growth on the ACF-SRP controlled area at harvest. Plants were taller and thicker. Our farm will only be using ACF-SRP if given the choice from now on. My recommendation is to use ACF-SRP as a preemptive to any disease starting in chickpeas. Our independent observations were that the ACF-SRP stopped the disease from spreading but didn't cure the affected plants. 2 separate agronomists confirmed all my data.

## **Lentil trials:**

Our area is heavily infested with Aphanomises root rot. Major problem in our area. Gaylord dam farm area received no fungicides at all this year. Raymonds home farm area received ACF-SRP and also the ACF-AgKit earlier on.

The major rain event of July 3 caused raised the disease pressure for Aphanomyces.

## **Results: Reduced Crop Loss and Yield Boost with ACF**

### **Gaylord Dam: Conventional fungicides.**

- The Gaylord Dam had significant extra aphano loss from same rain event.
- Yield was 12 bpa on gaylords dam with 25% dockage.

### **Raymond Home: ACF-AgKit and ACF-SRP.**

- The ndvi maps show no extra loss from aphano on the raymond home plots after our major rain events. Thats how aphano spreads.
- Yield on raymond's home half was 27 bpa with 3.5% dockage.

The more disease in the affected fields contributed to late weed growth which hurt. Our observation was the ACF-SRP treated lentil acres stopped the aphano in it's tracks and never spread after that. My recommendation is use ACF-SRP at the first hint of aphano.

The low biomass in the lentils we didn't spray continued to get worse over time with no signs of recovery.