



675 Central Drive Skyway Industrial Park Presque Isle Maine 04769 207-762-5771

GENOMIC SOIL PATHOGEN REPORT

Commercial agriculture has been adding expensive, toxic and resistance inducing chemistries to agricultural crops since modern day agriculture began right after World War II.

That is not a criticism it is just a fact. It is necessary to apply these products in large scale agriculture to ensure that we do not have crop failures that are financially disastrous to growers and potential catastrophic for the population's food security.

What does Genomic Soil Pathogen testing tell us about pathogens in the soil?

Commercial agriculture has for a long time applied a “better safe than sorry” approach to controlling pathogens. Most discussions I have with growers on pathogen control goes something like this?

- “Do we have any fusarium in the soil?”
- “I do not know but we cannot risk it so we are going to treat it.”

I do not know how many times I have heard that or said that myself.

Until now we have had no choice but with Genomic **Soil Pathogen Report** can now tell our growers that

Yes, you do have enough of that pathogen to apply that expensive treatment in **this** field but it is probably not worth applying it in this field because there is very little of that in the soil.

No, you do not have a significant amount of this pathogen in the soil so you can probably skip applying that specific chemistry this year.

What does the Soil Pathogen Report tell us?

- It tells you the presence of the top 30 pathogens of your crop
- It tells you levels of those pathogens in your soils
- It compares those levels to the benchmarks created for that crop throughout the country
- It tells you the ones that have the largest chance of causing crop damage
- It allows us risk management tool we have never had before

Financial impact of the Soil Pathogen Report :

Seed treatment and control products are one of the most expensive input growers have.

Knowing pathogen levels are at an infective level justifies using high-cost inputs.

Knowing that pathogen levels are not there you can justify not investing expensive control product and saving some money with less risk.



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Example of Financial Impact of the Soil Pathogen Report

Fumigation cost \$100's of dollars per acre. Sometimes there is an effect sometimes there is not. That is a big investment, and until now there has been no way of knowing if the pathogens we are trying to kill are present in the soil.

Treating a 1000-acre farm at \$400 per acre is a \$400,000 investment to find out that only half of the farm would benefit from fumigation.

Testing 1000-acre farm at a few dollars per acre to find out that only 500 acres needed to be treated is a savings of \$200,000 dollars.

This is one example of the many pathogens we treat in ag industry.

If you want to view a Genomic Soil Pathogen Report and discuss how to use this report in your operation contact me

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