18 January 2024

Unlocking the Potential of Soil DNA Analytics to Increase On-Farm Productivity

John Grandin, CPAg, CCA, 4R-NMS US Agronomist

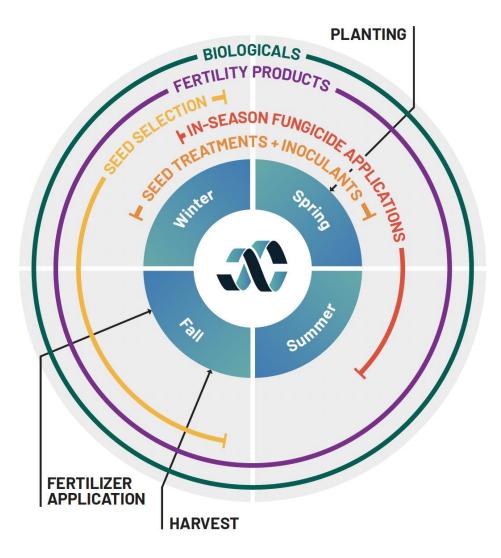


AN ALIVE SCIENCE COMPANY Booth 302 - 304

MULTI-YEAR, YEAR-ROUND DECISIONS. ONE SOIL TEST.

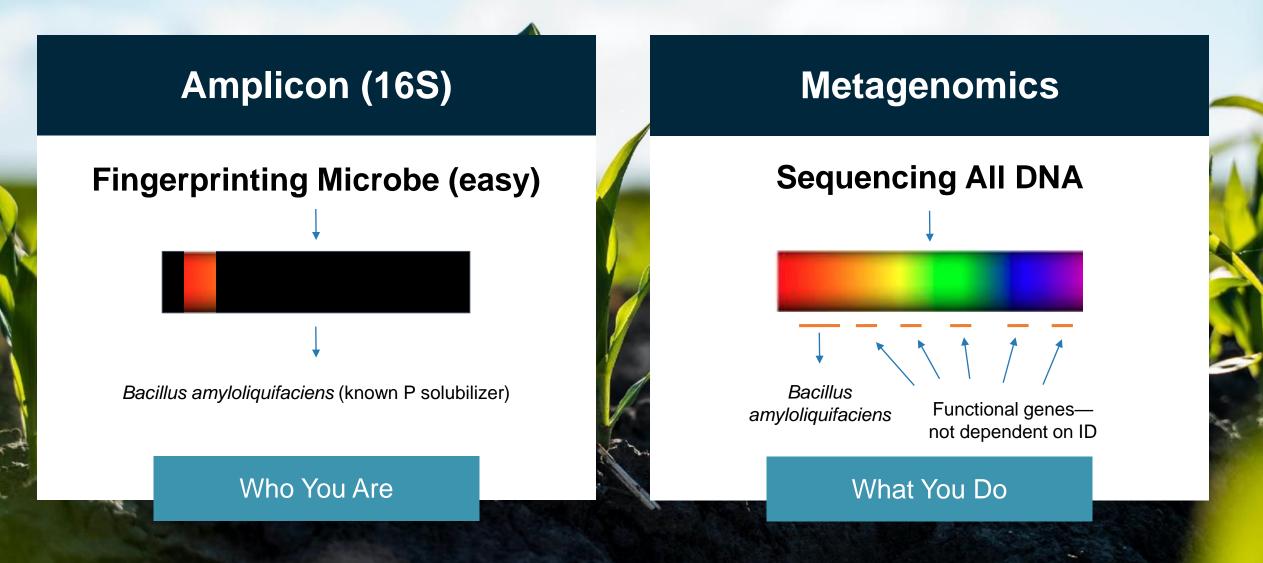


- Make the most informed agronomic decisions
- Improve product placement
- Make disease testing more convenient
- Promote trust between agronomists and growers



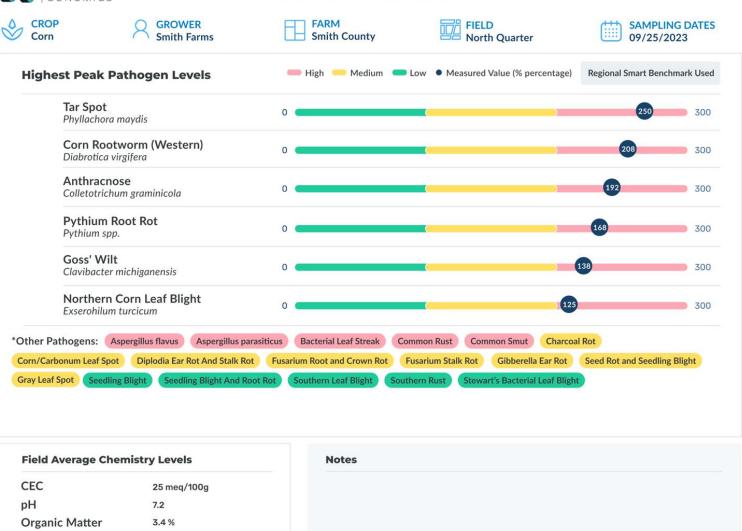
Booth 302 - 304

DNA SEQUENCING: LOW-DEFINITION VS. HIGH-DEFINITION



Booth 302 - 304 CENOMICS

Seed Solution Guide



615 South Bell Avenue, Ames, IA 50010 | support@tracegenomics.com | www.tracegenomics.com

Page 1 of 3





Corn

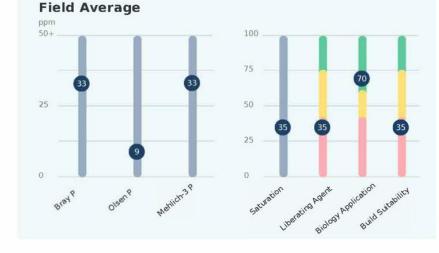
TracePHOS[®]

Phosphorus Report

FARM Home

FIELD Orville North

SAMPLING DATES



GROWER

Smith

Guidance

Chelator:

Phosphorus chelating agent is likely to produce a response because a significant proportion of phosphorus is bound in the soil under low saturation conditions.

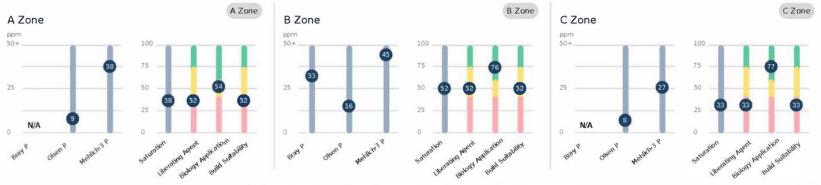
Biology Application:

The phosphorus soil biology level is high and may not significantly benefit from a biological product or management practice to enhance the soil's capacity to biologically process phosphorus.

Build Suitability:

The soil is able to hold more phosphorus due to the low saturation level and is suitable for a build strategy, if desired.





615 South Bell Avenue, Ames, IA 50010 | support@tracegenomics.com | 844-672-5749 | www.tracegenomics.com

Page 1 of 3









Field Summary

GROWER Grower 1 FARM Farm 1

Regional Smart Benchmark Used





Recommendations

Biological Indicators

Guidance

I ne use of a urease inhibitor or slow-release nitrogen fertilizers are strongly recommended to reduce the rate of urea decomposition and subsequent N volatilization.

Nitrification Potential

The use of nitrification inhibitors or slow-release nitrogen fertilizers may reduce the rate of nitrification.

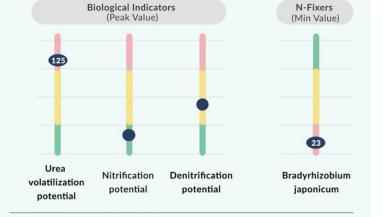
Denitrification Potential

Consider the use of nitrification inhibitors, slow-release nitrogen fertilizers and split applications to reduce the risk of N loss from denitrification.

N-Fixers

Inoculant (Bradyrhizobium japonicum)

The use of an inoculant is strongly recommended.



Measured Value (% of Benchmark)

Field Average Chemi	verage Chemistry Levels Notes	
Ammonium	1.9 ppm	
Nitrate	9.4 ppm	
CEC	25 meq/100g	
Organic Matter	3.4%	
pH	7.2	

615 South Bell Avenue, Ames, IA 50010 | support@tracegenomics.com | www.tracegenomics.com

Page 1 of 1

