Soil Biology Report Performed By:

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Client:

Name: Bailey Scott Hobs

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Date Observed: 07-26-2025

Sample Name: conventional corn

Sample Type: Soil

Plants Present/Desired: corn

Plant Succession: Productive Pastures, Row Crops

Beneficial Microorganisms

	Recommended Range		Sample Results	
Fungi (ug/g)	135	1,350	39	Low: The fungal biomass is below the recommended minimum level for your plant's stage in succession. Please contact your Soil Biology Consultant.
Standard Deviation			87	Few target organism were present and variability was very high. Precision is very low.
Bacteria (ug/g)	135	1,350	103	Low: The bacterial biomass is below the recommended minimum level for your plant's stage in succession. Please contact your Soil Biology Consultant.
Standard Deviation			9	Distribution of the target organisms in the sample was uniform; variation was small.
Actinobacteria (ug/g)	1	4	0	Low: The actinobacterial biomass is below the expected range. This is not a problem.
Standard Deviation			0	Distribution of the target organisms in the sample was uniform; variation was small.
F:B Ratio	0.9:1	2:1	0.38	The F:B ratio is low. Increase fungal biomass or reduce bacterial biomass, and check predators to assess balance. Please contact your Soil Biology Consultant.

	Minimum Value	Sample Results	
Protozoa (Total)	> 50,000	0	None detected: Please contact your Soil Biology Consultant.
Standard Deviation		0	Distribution of the target organisms in the sample was uniform; variation was small.
Flagellate (#/g)	*(See Total)*	0	
Standard Deviation		0	
Amoebae (#/g)	*(See Total)*	0	
Standard Deviation		0	

Nematodes			
Bacterial-feeding (#/g)	300	0	None detected: Bacterial-feeding nematodes help keep bacterial populations in balance and enhance nutrient cycling.
Fungal-feeding (#/g)	100	0	None detected: Fungal-feeding nematodes help to release nutrients from fungal hyphae to the plants.
Predatory (#/g)	100	0	None detected: Predatory nematodes help reduce root-feeding nematode numbers.

Detrimental Microorganisms

Disease-Causing Fungi	Maximum Value	Sample Results	
Oomycetes (ug/g)	0	0	None detected: No disease-causing fungi were observed in the sample. Great!
Standard Deviation		0	Distribution of the target organisms in the sample was uniform; variation was small.

Anaerobic Protozoa			
Ciliate (#/g)	0	0	None detected: No ciliates were observed in the sample. Aerobic conditions prevail. Great!
Standard Deviation		0	Distribution of the target organisms in the sample was uniform; variation was small.

Nematode			
Root-feeding (#/g)	0	0	None detected: No root-feeding nematodes were observed. Great!

Additional Comments: