

Soil Biology Report Performed By:

Lab name:

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Client:

Name: Bailey Scott
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Date Observed: 05-19-2025

Sample Name: Miller Farm
Sample Type: Soil
Plants Present/Desired: soybeans
Plant Succession: Productive Pastures, Row Crops

Beneficial Microorganisms

	Recommended Range		Sample Results	
Fungi (ug/g)	135	1,350	3	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			6	Few target organism were present and variability was very high. Precision is very low.
Bacteria (ug/g)	135	1,350	657	Good: The bacterial biomass is within the recommended range for your plant's stage in succession.
Standard Deviation			147	Distribution of organisms was somewhat uneven, resulting in an acceptable degree of variation.
Actinobacteria (ug/g)	1	4	0.23	Low: The actinobacterial biomass is below the expected range. This is not a problem.
Standard Deviation			0.23	Few target organism were present and variability was very high. Precision is very low.
F:B Ratio	0.9:1	2:1	0.0	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		
Protozoa (Total)	> 50,000	34,238	Low: The number of beneficial protozoa is below the minimum requirement. Please contact your Soil Biology Consultant.
Standard Deviation		31,255	Few target organism were present and variability was very high. Precision is very low.
Flagellate (#/g)	(See Total)	34,238	
Standard Deviation		31,255	
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!
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Additional Comments: