

Soil Biology Report Performed By:

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Client:

Name: Pine Creek Farm
 Organization:
 Plainview MN
 Email: pinecreekorganics@gmail.com
 Date Observed: 09-24-2024

Sample Name: Plot #4 Control

Sample Type: Soil

Plants Present/Desired: Annuals

Plant Succession: Vegetables, Early Successional Grasses

Beneficial Microorganisms

	Recommended Range	Sample Results	
Fungi (ug/g)	68 - 225	121	Good: The fungal biomass is within the recommended range for your plant's stage in succession.
Standard Deviation		202	Few target organism were present and variability was very high. Precision is very low.
Bacteria (ug/g)	135 - 450	167	Good: The bacterial biomass is within the recommended range for your plant's stage in succession.
Standard Deviation		16	Distribution of the target organisms in the sample was uniform; variation was small.
Actinobacteria (ug/g)	10 - 16	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	0.4:1 - 0.6:1	0.73	The F:B ratio is greater than the desired range. This might not be a problem. Please contact your Soil Biology Consultant.

Minimum Value

Protozoa (Total)	> 10,000	11,005	Good: The number of beneficial protozoa is above the minimum requirement.
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)	11,005	
Standard Deviation		24,608	

Nematodes

Bacterial-feeding (#/g)	200	0	None detected: Bacterial-feeding nematodes help keep bacterial populations in balance and enhance nutrient cycling.
Fungal-feeding (#/g)	0	0	None detected: Fungal-feeding nematodes help to release nutrients from fungal hyphae to the plants.
Predatory (#/g)	0	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: