

**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 #3 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	49	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		83	Few target organism were present and variability was very high. Precision is very low.
Bacteria (ug/g)	135      450	151	Good: The bacterial biomass is within the recommended range for your plant's stage in succession.
Standard Deviation		20	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	0.33	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)	> 10,000	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)	200	270	Good: Minimum numbers met.
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:**