Soil Biology Report Performed By:

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Date Observed: 01-01-2023

Sample Name: My Tomato Garden

Sample Type: Potting Soil

Plants Present/Desired: Tomato

Plant Succession: Vegetables, Early Successional Grasses

Beneficial Microorganisms

	Recommended Range		Sample Results	
Fungi (ug/g)	68	225	254	The fungal biomass is greater than the recommended maximum level. Please contact your Soil Biology Consultant.
Standard Deviation			104	Distribution of the target organisms was patchy, greater variability than desired.
Bacteria (ug/g)	135	450	408	Good: The bacterial biomass is within the recommended range for your plant's stage in succession.
Standard Deviation			29	Distribution of the target organisms in the sample was uniform; variation was small.
Actinobacteria (ug/g)	10	16	2.11	Low: The actinobacterial biomass is below the expected range. This is not a problem.
Standard Deviation			1.21	Target organisms were present in the sample, but extremely patchy in distribution. Precision is poor.
F:B Ratio	0.4:1	0.6:1	0.62	The F:B ratio is greater than the desired range. This might not be a problem. Please contact your Soil Biology Consultant.

	Minimum Value	Sample Results	
Protozoa (Total)	> 10,000	396,000	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)*	108,000	
Standard Deviation		147,885	
Amoebae (#/g)	*(See Total)*	288,000	
Standard Deviation		160,997	

Nematodes

Bacterial-feeding (#/g)	200	100	Low: Bacterial-feeding nematodes help keep bacterial populations in balance and enhance nutrient cycling.
Fungal-feeding (#/g)	0	100	Good: Minimum numbers met.
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: