

Soil Biology Report Performed By:

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Client:

Name:
 Organization:
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 Date Observed: 07-12-2024

Sample Name: Lovegrass
Sample Type: Soil
Plants Present/Desired:
Plant Succession: Early Successional

Beneficial Microorganisms

	Recommended Range	Sample Results	
Fungi (ug/g)	32 90	188	The fungal biomass is greater than the recommended maximum level. Please contact your Soil Biology Consultant.
Standard Deviation		235	Few target organism were present and variability was very high. Precision is very low.
Bacteria (ug/g)	135 270	5,115	The bacterial biomass is significantly greater than the maximum recommended level. Please contact your Soil Biology Consultant.
Standard Deviation		368	Distribution of the target organisms in the sample was uniform; variation was small.
Actinobacteria (ug/g)	10 100	2.38	Low: The actinobacterial biomass is below the expected range. This is not a problem.
Standard Deviation		2.26	Few target organism were present and variability was very high. Precision is very low.
F:B Ratio	0.2:1 0.4:1	0.04	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	154,073	Good: The number of beneficial protozoa is above the minimum requirement.
Standard Deviation		298,974	Few target organism were present and variability was very high. Precision is very low.
Flagellate (#/g)	(See Total)	154,073	
Standard Deviation		298,974	
Amoebae (#/g)	(See Total)	0	
Standard Deviation		0	

Nematodes

Bacterial-feeding (#/g)	100	210	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	60	Some oomycetes detected. Beneficial fungi should be more than double the disease-causer's biomass to outcompete them and hold the disease fungi in check.
Standard Deviation		21	Distribution of organisms was somewhat uneven, resulting in an acceptable degree of variation.

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: