

Soil Biology Report Performed By:

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**Client:**

Name:
 Organization: Winn's Compost
 120 Ohio Gulch Rd
 Hailey ID 83333
 Email:
 Date Observed: 05-16-2023

Sample Name: Landscape Compost**Sample Type: Compost****Plants Present/Desired: Compost****Plant Succession: Mid-Successional****Beneficial Microorganisms**

	Recommended Range		Sample Results	
Fungi (ug/g)	101	1,012	194	Good: The fungal biomass is within the recommended range for your plant's stage in succession.
Standard Deviation			237	Few target organism were present and variability was very high. Precision is very low.
Bacteria (ug/g)	135	1,350	2,975	The bacterial biomass is significantly greater than the maximum recommended level. Please contact your Soil Biology Consultant.
Standard Deviation			404	Distribution of the target organisms in the sample was uniform; variation was small.
Actinobacteria (ug/g)	1	10	4.02	Good: The actinobacterial biomass is within the recommended range for your plant's succession.
Standard Deviation			5.6	Few target organism were present and variability was very high. Precision is very low.
F:B Ratio	0.6:1	0.9:1	0.07	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	771,400	Good: The number of beneficial protozoa is above the minimum requirement.
Standard Deviation		492,829	Target organisms were present in the sample, but extremely patchy in distribution. Precision is poor.
Flagellate (#/g)	(See Total)	551,000	
Standard Deviation		389,616	
Amoebae (#/g)	(See Total)	220,400	
Standard Deviation		301,795	

Nematodes

Bacterial-feeding (#/g)	200	800	Good: Minimum numbers met.
Fungal-feeding (#/g)	100	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	15	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		32	Few target organism were present and variability was very high. Precision is very low.

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: Good protozoa population, Fungi population there but sparse