



**Soil Biology Report Performed By:**

**Hiwassee Products Soil Lab**  
 225 Hiwassee Community Drive  
 Madisonville, TN, 37354, United States

**Website:** hiwasseeproducts.com

**Plant Present/Desired:**

**Beneficial Microorganisms**

**Client:**

**Hiwassee Products**  
 Hiwassee Products  
 225 Hiwassee Community Drive  
 Madisonville, TN, 37354, United States

**Date Observed:** June 04, 2024

**Sample Type:** Compost

**Plant Succession:** BioComplete™ Amendments

	Recommended Range		Sample	
Fungi (µg/g)	135	135	256.61	The fungal biomass is greater than the recommended maximum level. Please contact your Soil Biology Consultant.
Standard Deviation			84.02	Distribution of organisms was somewhat uneven, resulting in an acceptable degree of variation.
Bacteria (µg/g)	135	0	436.36	The bacterial biomass is significantly greater than the maximum recommended level. Please contact your Soil Biology Consultant.
Standard Deviation			35.27	Distribution of the target organisms in the sample was uniform; variation was small.
Actinobacteria (µg/g)	0	0	0.93	Too high for plants that need mycorrhizal colonization. Please contact your Soil Biology Consultant.
Standard Deviation			0.59	Distribution of the target organisms was patchy, greater variability than desired.
F:B Ratio	0.3	0	0.59	The F:B ratio is within the desired range for your plant's stage in succession. Great!
<b>Minimum Value</b>				
<u>Protozoa (Total)</u>	> 10,000		195,569.59	Good: The number of beneficial protozoa is above the minimum requirement.
Standard Deviation			44,632.45	Distribution of organisms was somewhat uneven, resulting in an acceptable degree of variation.
Flagellate (#/g)	(See Total)		81,487.33	
Standard Deviation			0	
Amoebae (#/g)	(See Total)		114,082.26	
Standard Deviation			44,632.45	
<u>Nematodes</u>				
Bacterial-feeding (#/g)	0		800	Good: Minimum numbers met.
Fungal-feeding (#/g)	0		200	Good: Minimum numbers met.

Predatory (#/g)	0	0	None detected: Predatory nematodes help reduce root-feeding nematode numbers.
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## **Detrimental Microorganisms**

<u>Disease-Causing Fungi</u>	<b>Maximum Value</b>	<b>Sample</b>	
Oomycetes (µg/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.
<u>Anaerobic Protozoa</u>			
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.
<u>Nematode</u>			
Root-feeding (#/g)	0	0	None detected: No root-feeding nematodes were observed. Great!

## **Additional Notes**

Screened to 3/4" which provides better structure for the biology to live and grow.