



Quantitative Soil Assay – NF_LOB17 LOWER BIO

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Assay Name	Result	Units	Desired Level	Commentary
Microbial Biomass				
Dry Weight	N/A	N/A	0.45 to 0.85	
Total Fungi	3,638	µg/g	100-300	High. Excellent diversity with more than 3 morphological species.
Hyphal Diameter	2.5	µg/g	> 2.50	Good.
Total Bacteria	3,139	µg/g	100-3000	Good diversity.
Actinobacteria	6.62	µg/g	< 20.00	
Microbial Ratio(s)				
TF/TB	1.157		0.75-1.5	Balanced fungal: bacterial biomass.
Protists				
Flagellates	81,520	MPN/g	> 10,000.00	High.
Amoebae	285,320	MPN/g	> 10,000.00	High.
Ciliates	50	MPN/g	50-100	Average.
Nitrogen Cycling Potential	N/A	lb/acre		

Nematodes				
Bacterial	0	number/g		None observed.
Fungal	0	number/g		None observed.
Fungal/Root	0	number/g		None observed.
Predatory	0	number/g		None observed.
Root	0	number/g		None observed.
Miscellaneous Testing				
E.coli	N/A		< 800.00	
pH	4.89			
Organic Matter	10.35			
Electrical Conductivity	31.3		< 1000.00	

Notes: pH is lower than the desired levels for hazelnut trees. An application of lime or biochar will help increase pH, with a goal to at least 5.0- 5.5. Overall healthy looking soil.