



**Quantitative Soil Assay- NF\_UPB17 UPPER BIO**

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Assay Name	Result	Units	Desired Level	Commentary
<b>Microbial Biomass</b>				
Dry Weight	N/A	N/A	0.45 to 0.85	
Total Fungi	7,840	µg/g	100-300	High. Excellent diversity.
Hyphal Diameter	2.5	µg/g	> 2.50	Good.
Total Bacteria	3,302	µg/g	100-3000	Good.
Actinobacteria	10.46	µg/g	< 20.00	
<b>Microbial Ratio(s)</b>				
TF/TB	2.36		0.75-1.5	High in fungal biomass.
<b>Protists</b>				
Flagellates	40,760	MPN/g	> 10,000.00	Good.
Amoebae	81,520	MPN/g	> 10,000.00	High.
Ciliates	50	MPN/g	50-100	

Nitrogen Cycling Potential	N/A	lb/acre		
<b>Nematodes</b>				
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.
<b>Miscellaneous Testing</b>				
E.coli	N/A		< 800.00	
pH	4.69			
Organic Matter	10.36			
Electrical Conductivity	11.8		< 1000.00	

Notes: Ideally walnuts prefer a bit more alkaline pH, although chestnuts like a bit more acidic. Good balance is to raise pH to 5-5.5. You can achieve this by applying Biochar or Lime.