

Soil Detail

Report prepared for:
 Kellys Working Well Farm
 Jessica Burns
 1080 Richmond Rd
 Painesville, OH 44077 USA

Report Sent: 25 Jun 2020
 Sample #: 01-132526
 Unique ID: Bed 2
 Plant: Chestnut
 Season: spring
 Invoice Number: 19090
 Sample Recieved: 17 Jun 2020



Earthfort, LLC
 635 SW Western Blvd
 Corvallis, OR 97333
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For interpretation of this report please contact your local Soil Steward or the lab.

Assay Name	Result	Units	Desired Level	Commentary
Organism Biomass Data				
Dry Weight	0.55	N/A	0.20 to 0.85	Within normal moisture levels.
Active Fungi	8.81	µg/g	> 150.00	Fungal activity low, foods may be required. -
Total Fungi	2,112.27	µg/g	> 1,500.00	Good fungal biomass. - Good fungal diversity. Hyphal diameter: 1.5 to 7 µm.
Hyphal Diameter	2.85	µm	> 2.85	Good balance of fungi. -
Active Bacteria	446.84	µg/g	> 30.00	Bacterial activity within normal levels.
Total Bacteria	1,363.74	µg/g	> 300.00	Good bacterial biomass. -
Actinobacteria	26.05	µg/g	< 10.00	
Organism Biomass Ratios				
TF:TB	1.55		5.00 to 50.00	Too bacterial for chestnut.
AF:TF	0.00		> 0.10	Low fungal activity relative to total biomass, foods may be required.
AB:TB	0.33		> 0.10	Good bacterial activity.
AF:AB	0.02		5.00 to 50.00	Fungal dominated, becoming more bacterial
Protozoa (Protists)				
Flagellates	83,911.71	number/g	> 10,000.00	Nutrients are being cycled and made available to plants in good rates.
Amoebae	2,525,549.31	number/g	> 100,000.00	
Ciliates	776.08	number/g	< 26095.00	
Nitrogen Cycling Potential	300+	lbs/acre		Nitrogen levels dependent on plant needs. Estimated availability over a 3 month period
Nematodes				
Nematodes	2.55	number/g	> 10.00	Low numbers, but excellent diversity.
Bacterial	1.70	number/g	> 4.00	
Fungal	0.07	number/g	> 4.00	
Fungal/Root	0.39	number/g	< 1.00	
Predatory	0.39	number/g	> 2.00	
Root	0.00	number/g	< 1.00	
Mycorrhizal Fungi				
ENDO	Not Ordered	%	> 50	-
ECTO	Not Ordered	%	> 50	
Ericoid	Not Ordered	%	> 50	
Miscellaneous Testing				
E.coli	Not Ordered	CFU/g	< 800.00	For most areas, the maximum E.coli CFU/g is 800 - 1000. Please check your local regulations for more information. -
pH	Not Ordered			
Electrical Conductivity	Not Ordered	µS/cm	< 1000.00	

Soil Notes:

Nematode Detail

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**# per gram
Classified by type and identified to genus.
If section is blank, no nematodes identified.**

Nematode Genus	number/g	Units	Group	Common Name
Achromadora	0.13	number/g	Bacterial Feeders	
Butlerius	0.92	number/g	Bacterial Feeders	
Cephalobus	0.07	number/g	Bacterial Feeders	
Eucephalobus	0.13	number/g	Bacterial Feeders	
Eumonhystera	0.07	number/g	Bacterial Feeders	
Plectus	0.33	number/g	Bacterial Feeders	
Rhabditidae	0.07	number/g	Bacterial Feeders	
Mesodorylaimus	0.07	number/g	Fungal Feeders	
Ditylenchus	0.20	number/g	Fungal/Root Feeders	Stem & Bulb nematode
Filenchus	0.20	number/g	Fungal/Root Feeders	
Clarkus	0.20	number/g	Predatory	
Mononchus	0.07	number/g	Predatory	
Mylonchulus	0.13	number/g	Predatory	

Soil Biology Report

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Assay	Below Range	Desired Range	Above Range	Range	Result
Dry Weight				0.2 - 0.85	0.55
Active Fungi				> 150 µg/g	8.81 µg/g
Total Fungi				> 1500 µg/g	2,112.27 µg/g
Active Bacteria				> 30 µg/g	446.84 µg/g
Total Bacteria				> 300 µg/g	1,363.74 µg/g
TF:TB				5 - 50	1.55
AF:TF				> 0.1	0.00
AB:TB				> 0	0.33
AF:AB				5 - 50	0.02
Flagellates				> 10000 /g	83,911.71 /g
Amoebae				> 100000 /g	2,525,549.31 /g
Ciliates				< 26095 /g	776.08 /g
Nematodes				> 10 /g	2.55 /g