

Soil Detail



Report prepared for:
 Kellys Working Well Farm
 Jessica Burns
 3972 Ardmore Rd
 Cleveland Heights, OH 44121

Report Sent: 12/29/2021
 Sample # 01-135500
 Unique ID: Bed 2
 Plant: Chestnut
 Season: fall
 Invoice Number: 20772
 Sample Received: 12/17/2021

Earthfort, LLC
 635 SW Western Blvd
 Corvallis, OR 97333
 +1 (541) 257-2612
 info@earthfort.com
 http://earthfort.com

For interpretation of this report, please contact your local Soil Steward or the lab.

Assay Name	Result	Units	Range	Commentary
Organism Biomass Data				
Dry Weights	0.63	N/A	0.2 to 0.85	Within normal moisture levels.
Active Fungi	3.84	µ/g	> 150	Fungal activity low, foods may be required.
Total Fungi	899.34	µ/g	> 1500	Low fungal biomass, foods and biology may be required.
Hyphal Diameter	2.85	µm	> 2.85	Good balance of fungi.
Active Bacteria	12.73	µ/g	> 30	Bacterial activity low, foods may be required.
Total Bacteria	574.99	µ/g	> 300	Good bacterial biomass.
Organism Biomass Ratios				
TF:TB	1.56		5 to 50	Too bacterial for chestnuts.
AF:TF	0.00		> 0.1	Low fungal activity relative to total biomass, foods may be required.
AB:TB	0.02		> 0.1	Low bacterial activity relative to total biomass, foods may be required.
AF:AB	0.30		5 to 50	Fungal dominated, becoming more bacterial
Protozoa (Protists)				
Flagellates	7311.32	#/g	> 10000	Lacking species diversity.
Amoebae	73113.17	#/g	> 100000	
Ciliates	0.00	#/g	< 804	
Nitrogen Cycling Potential	100-150	lbs/acre		Nitrogen levels dependent on plant needs. Estimated availability over a 3 month period.
Nematodes				
Nematodes	6.29	#/g	> 10	Low numbers, but excellent diversity.
Bacterial	3.80	#/g		
Fungal	0.47	#/g		
Fungal/Root	1.54	#/g		
Predatory	0.36	#/g		
Root	0.12	#/g		
Miscellaneous Testing				
E.coli	Not Ordered	CFU/g	< 800	
pH	7.50			
Electrical Conductivity	60.00	µs/cm	< 1000	
Notes				

Nematode Detail



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Nematode Genus	Result	Units	Group	Common Name
Bacterial Feeders				
Achromadora	0.12	number/g	Bacterial Feeders	
Bastiania	0.24	number/g	Bacterial Feeders	
Cephalobus	0.36	number/g	Bacterial Feeders	
Eucephalobus	1.19	number/g	Bacterial Feeders	
Geomonhystera	0.59	number/g	Bacterial Feeders	
Plectus	0.83	number/g	Bacterial Feeders	
Rhabditidae	0.24	number/g	Bacterial Feeders	Family
Tripyla	0.24	number/g	Bacterial Feeders	
Fungal Feeders				
Eudorylaimus	0.24	number/g	Fungal Feeders	
Microdorylaimus	0.12	number/g	Fungal Feeders	
Tylencholaimus	0.12	number/g	Fungal Feeders	
Fungal/Root Feeders				
Aphelenchus	0.12	number/g	Fungal/Root Feeders	
Ditylenchus	1.07	number/g	Fungal/Root Feeders	Stem & Bulb nematode
Filenchus	0.36	number/g	Fungal/Root Feeders	
Predatory				
Clarkus	0.12	number/g	Predatory	
Mononchoides	0.24	number/g	Predatory	
Root Feeders				
Helicotylenchus	0.12	number/g	Root Feeders	Spiral nematode

Soil Graphs



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Assay	Range	Result
Organism Biomass Data		
Dry Weight	0.2-0.85	0.63
Active Fungi	> 150	3.84
Total Fungi	> 1500	899.34
Active Bacteria	> 30	12.73
Total Bacteria	> 300	574.99
Organism Biomass Ratios		
TF:TB	5-50	1.56
AF:TF	> 0.1	0.00
AB:TB	> 0.1	0.02
AF:AB	5-50	0.30
Protozoa (Protists)		
Flagellates	> 10000	7311.32
Amoebae	> 100000	73113.17
Ciliates	< 804	0.00
Nematodes		
Nematodes	> 10	6.29

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Report Sent: 12/29/2021
 Sample # 01-135499
 Unique ID: Bed 1
 Plant: Chestnut
 Season: fall
 Invoice Number: 20772
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Assay Name	Result	Units	Range	Commentary
Organism Biomass Data				
Dry Weights	0.50	N/A	0.2 to 0.85	Within normal moisture levels.
Active Fungi	8.72	µ/g	> 150	Fungal activity low, foods may be required.
Total Fungi	1785.73	µ/g	> 1500	Good fungal biomass.
Hyphal Diameter	2.85	µm	> 2.85	Good balance of fungi.
Active Bacteria	6.14	µ/g	> 30	Bacterial activity low, foods may be required.
Total Bacteria	765.31	µ/g	> 300	Good bacterial biomass.
Organism Biomass Ratios				
TF:TB	2.33		5 to 50	Too bacterial for chestnuts.
AF:TF	0.00		> 0.1	Low fungal activity relative to total biomass, foods may be required.
AB:TB	0.01		> 0.1	Low bacterial activity relative to total biomass, foods may be required.
AF:AB	1.42		5 to 50	Fungal dominated, becoming more fungal.
Protozoa (Protists)				
Flagellates	27568.69	#/g	> 10000	Lacking species diversity.
Amoebae	91597.33	#/g	> 100000	
Ciliates	0.00	#/g	< 1192	
Nitrogen Cycling Potential	200+	lbs/acre		Nitrogen levels dependent on plant needs. Estimated availability over a 3 month period.
Nematodes				
Nematodes	6.88	#/g	> 10	Low numbers, but good diversity.
Bacterial	4.27	#/g		
Fungal	0.24	#/g		
Fungal/Root	1.66	#/g		
Predatory	0.71	#/g		
Root	0.00	#/g		
Miscellaneous Testing				
E.coli	Not Ordered	CFU/g	< 800	
pH	7.20			
Electrical Conductivity	70.00	µs/cm	< 1000	
Notes				

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Nematode Genus	Result	Units	Group	Common Name
Bacterial Feeders				
Bastiania	0.47	number/g	Bacterial Feeders	
Cephalobus	0.24	number/g	Bacterial Feeders	
Eucephalobus	0.95	number/g	Bacterial Feeders	
Plectus	1.19	number/g	Bacterial Feeders	
Rhabditidae	0.24	number/g	Bacterial Feeders	Family
Tripyla	1.19	number/g	Bacterial Feeders	
Fungal Feeders				
Prodorylaimus	0.24	number/g	Fungal Feeders	
Fungal/Root Feeders				
Ditylenchus	1.66	number/g	Fungal/Root Feeders	Stem & Bulb nematode
Predatory				
Clarkus	0.47	number/g	Predatory	
Mylonchulus	0.24	number/g	Predatory	
Root Feeders				

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Assay	Range	Result
Organism Biomass Data		
Dry Weight	0.2-0.85	0.50
Active Fungi	> 150	8.72
Total Fungi	> 1500	1785.73
Active Bacteria	> 30	6.14
Total Bacteria	> 300	765.31
Organism Biomass Ratios		
TF:TB	5-50	2.33
AF:TF	> 0.1	0.00
AB:TB	> 0.1	0.01
AF:AB	5-50	1.42
Protozoa (Protists)		
Flagellates	> 10000	27568.69
Amoebae	> 100000	91597.33
Ciliates	< 1192	0.00
Nematodes		
Nematodes	> 10	6.88