

Soil Detail

Report prepared for:
Cicero Farm Market
Karen Carlisle
22334 Prairie Baptist Rd
Noblesville, IN 46060 USA

Report Sent: 19 Jul 2019
Sample #: 01-130261
Unique ID: Soil 1
Plant: Not Indicated
Season: summer
Invoice Number: 17859
Sample Recieved: 12 Jul 2019



Earthfort, LLC
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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	0.58	N/A	0.45 to 0.85	Within normal moisture levels.
Active Fungi	0.00	µg/g	> 30.00	No fungal activity observed, foods may be required. -
Total Fungi	1,335.35	µg/g	> 300.00	Good fungal biomass. - Good fungal diversity. Hyphal diameter: 1.5 to 6µm.
Hyphal Diameter	2.85	µm	> 2.50	Good balance of fungi. -
Active Bacteria	31.78	µg/g	> 30.00	Bacterial activity within normal levels.
Total Bacteria	866.65	µg/g	> 300.00	Good bacterial biomass. -
Actinobacteria	37.05	µg/g		
Organism Biomass Ratios				
TF:TB	1.54		1.00 to 2.00	Correctly balanced fungal and bacterial biomass for most plants.
AF:TF	0.00		> 0.10	Low fungal activity relative to total biomass, foods may be required.
AB:TB	0.04		> 0.10	Low bacterial activity relative to total biomass, foods may be required.
AF:AB	0.00		1.00 to 2.00	Fungal dominated, becoming more bacterial
Protozoa (Protists)				
Flagellates	9,877.45	number/g	> 10,000.00	Lacking species diversity.
Amoebae	237,975.57	number/g	> 10,000.00	
Ciliates	731.28	number/g	< 2479.00	
Nitrogen Cycling Potential	250+	lbs/acre		Nitrogen levels dependent on plant needs. Estimated availability over a 3 month period
Nematodes				
Nematodes	33.39	number/g	> 10.00	Good numbers, but limited diversity.
Bacterial	29.68	number/g	> 4.00	
Fungal	0.00	number/g	> 4.00	
Fungal/Root	3.71	number/g	< 1.00	
Predatory	0.00	number/g	> 2.00	
Root	0.00	number/g	< 1.00	
Mycorrhizal Fungi				
ENDO	Not Ordered	%	> 10	-
ECTO	Not Ordered	%	> 10	
Ericoid	Not Ordered	%	> 10	
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:
with wood chips

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
Butlerius	25.23	number/g	Bacterial Feeders	
Eucephalobus	0.74	number/g	Bacterial Feeders	
Monhystrella	2.23	number/g	Bacterial Feeders	
Rhabditidae	1.48	number/g	Bacterial Feeders	
Aphelenchoides	0.74	number/g	Fungal/Root Feeders	Foliar nematode
Filenchus	2.97	number/g	Fungal/Root Feeders	

Soil Biology Report

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Assay	Below Range	Desired Range	Above Range	Range	Result
Dry Weight				0.45 - 0.85	0.58
Active Fungi				> 30 µg/g	0.00 µg/g
Total Fungi				> 300 µg/g	1,335.35 µg/g
Active Bacteria				> 30 µg/g	31.78 µg/g
Total Bacteria				> 300 µg/g	866.65 µg/g
TF:TB				1 - 2	1.54
AF:TF				> 0.1	0.00
AB:TB				> 0.1	0.04
AF:AB				1 - 2	0.00
Flagellates				> 10000 /g	9,877.45 /g
Amoebae				> 10000 /g	237,975.57 /g
Ciliates				< 2479 /g	731.28 /g
Nematodes				> 10 /g	33.39 /g