

Soil Detail

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

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

Report Sent:
Sample #: 01-131119
Unique ID: Fall
Plant: Beans
Season: fall
Invoice Number: 18268
Sample Recieved: 28 Oct 2019



Earthfort, LLC
635 SW Western Blvd
Corvallis, OR 97333
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Assay Name	Result	Units	Desired Level	Commentary
Organism Biomass Data				
Dry Weight	0.49	N/A	0.45 to 0.85	Within normal moisture levels.
Active Fungi	1.98	µg/g	> 45.00	Fungal activity low, foods may be required. -
Total Fungi	2,593.38	µg/g	> 300.00	Good fungal biomass. - Good fungal diversity. Hyphal diameter: 2 to 6 µm.
Hyphal Diameter	3.00	µm	> 2.50	Disease suppressive fungi likely present. -
Active Bacteria	40.40	µg/g	> 45.00	Bacterial activity low, foods may be required.
Total Bacteria	424.76	µg/g	> 300.00	Good bacterial biomass. -
Actinobacteria	46.78	µg/g		
Organism Biomass Ratios				
TF:TB	6.11		1.00 to 2.00	Too fungal for beans.
AF:TF	0.00		> 0.15	Low fungal activity relative to total biomass, foods may be required.
AB:TB	0.10		> 0.15	Low bacterial activity relative to total biomass, foods may be required.
AF:AB	0.05		1.00 to 2.00	Fungal dominated, becoming more bacterial
Protozoa (Protists)				
Flagellates	28,089.78	number/g	> 5,000.00	Nutrients are being cycled and made available to plants in good rates.
Amoebae	561,793.59	number/g	> 5,000.00	
Ciliates	932.07	number/g	< 5899.00	
Nitrogen Cycling Potential	300+	lbs/acre		Nitrogen levels dependent on plant needs. Estimated availability over a 3 month period
Nematodes				
Nematodes	21.42	number/g	> 10.00	Good numbers and diversity.
Bacterial	10.84	number/g	> 4.00	
Fungal	1.63	number/g	> 4.00	
Fungal/Root	8.68	number/g	< 1.00	
Predatory	0.27	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:
a grant project to compare garden with and without wood-chips, first test done late fall, next test early June

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
Cephalobus	3.25	number/g	Bacterial Feeders	
Eucephalobus	0.27	number/g	Bacterial Feeders	
Monhystrella	4.61	number/g	Bacterial Feeders	
Rhabditidae	1.63	number/g	Bacterial Feeders	
Wilsonema	1.08	number/g	Bacterial Feeders	
Microdorylaimus	1.63	number/g	Fungal Feeders	
Aphelenchoides	0.81	number/g	Fungal/Root Feeders	Foliar nematode
Aphelenchus	0.27	number/g	Fungal/Root Feeders	
Ditylenchus	2.98	number/g	Fungal/Root Feeders	Stem & Bulb nematode
Filenchus	4.61	number/g	Fungal/Root Feeders	
Clarkus	0.27	number/g	Predatory	

Soil Biology Report

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Assay	Below Range	Desired Range	Above Range	Range	Result
Dry Weight				0.45 - 0.85	0.49
Active Fungi				> 45 µg/g	1.98 µg/g
Total Fungi				> 300 µg/g	2,593.38 µg/g
Active Bacteria				> 45 µg/g	40.40 µg/g
Total Bacteria				> 300 µg/g	424.76 µg/g
TF:TB				1 - 2	6.11
AF:TF				> 0.15	0.00
AB:TB				> 0.15	0.10
AF:AB				1 - 2	0.05
Flagellates				> 5000 /g	28,089.78 /g
Amoebae				> 5000 /g	561,793.59 /g
Ciliates				< 5899 /g	932.07 /g
Nematodes				> 10 /g	21.42 /g