

# Soil Detail

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

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

Assay Name	Result	Units	Desired Level	Commentary
<b>Organism Biomass Data</b>				
Dry Weight	0.49	N/A	0.45 to 0.85	Within normal moisture levels.
Active Fungi	<b>1.98</b>	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	<b>40.40</b>	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		
<b>Organism Biomass Ratios</b>				
TF:TB	<b>6.11</b>		1.00 to 2.00	Too fungal for beans.
AF:TF	<b>0.00</b>		> 0.15	Low fungal activity relative to total biomass, foods may be required.
AB:TB	<b>0.10</b>		> 0.15	Low bacterial activity relative to total biomass, foods may be required.
AF:AB	<b>0.05</b>		1.00 to 2.00	Fungal dominated, becoming more bacterial
<b>Protozoa (Protists)</b>				
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
<b>Nematodes</b>				
Nematodes	21.42	number/g	> 10.00	Good numbers and diversity.
Bacterial	10.84	number/g	> 4.00	
Fungal	<b>1.63</b>	number/g	> 4.00	
Fungal/Root	<b>8.68</b>	number/g	< 1.00	
Predatory	<b>0.27</b>	number/g	> 2.00	
Root	0.00	number/g	< 1.00	
<b>Mycorrhizal Fungi</b>				
ENDO	Not Ordered	%	> 10	-
ECTO	Not Ordered	%	> 10	
Ericoid	Not Ordered	%	> 10	
<b>Miscellaneous Testing</b>				
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	<b>1.98 µg/g</b>
Total Fungi				> 300 µg/g	2,593.38 µg/g
Active Bacteria				> 45 µg/g	<b>40.40 µg/g</b>
Total Bacteria				> 300 µg/g	424.76 µg/g
TF:TB				1 - 2	<b>6.11</b>
AF:TF				> 0.15	<b>0.00</b>
AB:TB				> 0.15	<b>0.10</b>
AF:AB				1 - 2	<b>0.05</b>
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