

Soil Detail

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

Report Sent: 20 Dec 2018
 Sample #: 01-128966
 Unique ID: with woodchips
 Plant: Beans
 Season: fall
 Invoice Number: 17045
 Sample Received: 12 Dec 2018



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	0.65	N/A	0.45 to 0.85	Within normal moisture levels.
Active Fungi	28.32	µg/g	> 45.00	Fungal activity low, foods may be required. -
Total Fungi	1,269.30	µg/g	> 300.00	Good fungal biomass. - Good fungal diversity. Hyphal diameter: 1.5 to 6µm.
Hyphal Diameter	2.90	µm	> 2.50	Good balance of fungi. -
Active Bacteria	504.12	µg/g	> 45.00	Bacterial activity within normal levels.
Total Bacteria	809.57	µg/g	> 300.00	Good bacterial biomass. -
Actinobacteria	15.43	µg/g		
Organism Biomass Ratios				
TF:TB	1.57		1.00 to 2.00	Correctly balanced fungal and bacterial biomass for beans.
AF:TF	0.02		> 0.15	Low fungal activity relative to total biomass, foods may be required.
AB:TB	0.62		> 0.15	Good bacterial activity.
AF:AB	0.06		1.00 to 2.00	Fungal dominated, becoming more bacterial
Protozoa (Protists)				
Flagellates	55,250.00	number/g	> 5,000.00	Nutrients are being cycled and made available to plants in good rates.
Amoebae	1,287,309.52	number/g	> 5,000.00	
Ciliates	2,145.00	number/g	< 13426.00	
Nitrogen Cycling Potential	300+	lbs/acre		Nitrogen levels dependent on plant needs. Estimated availability over a 3 month period
Nematodes				
Nematodes	4.41	number/g	> 10.00	Low numbers, but good diversity.
Bacterial	1.13	number/g	> 4.00	
Fungal	0.13	number/g	> 4.00	
Fungal/Root	3.15	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:

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	0.13	number/g	Bacterial Feeders	
Geomonhystera	0.13	number/g	Bacterial Feeders	
Monhystrella	0.13	number/g	Bacterial Feeders	
Plectus	0.13	number/g	Bacterial Feeders	
Rhabditidae	0.38	number/g	Bacterial Feeders	
Tobrilus	0.13	number/g	Bacterial Feeders	
Tripyla	0.13	number/g	Bacterial Feeders	
Aporcelaimellus	0.13	number/g	Fungal Feeders	
Aphelenchoides	0.13	number/g	Fungal/Root Feeders	Foliar nematode
Ditylenchus	2.90	number/g	Fungal/Root Feeders	Stem & Bulb nematode
Psilenchus	0.13	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	0.65
Active Fungi				> 45 µg/g	28.32 µg/g
Total Fungi				> 300 µg/g	1,269.30 µg/g
Active Bacteria				> 45 µg/g	504.12 µg/g
Total Bacteria				> 300 µg/g	809.57 µg/g
TF:TB				1 - 2	1.57
AF:TF				> 0.15	0.02
AB:TB				> 0	0.62
AF:AB				1 - 2	0.06
Flagellates				> 5000 /g	55,250.00 /g
Amoebae				> 5000 /g	1,287,309.52 /g
Ciliates				< 13426 /g	2,145.00 /g
Nematodes				> 10 /g	4.41 /g