

Soil Detail

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

Report Sent: 20 Dec 2018
 Sample #: 01-128965
 Unique ID: with out woodchips
 Plant: Beans
 Season: fall
 Invoice Number: 17045
 Sample Recieved: 12 Dec 2018



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	Desired Level	Commentary
Organism Biomass Data				
Dry Weight	0.74	N/A	0.45 to 0.85	Within normal moisture levels.
Active Fungi	11.78	µg/g	> 45.00	Fungal activity low, foods may be required. -
Total Fungi	617.24	µg/g	> 300.00	Good fungal biomass. - Fairly good fungal diversity. Hyphal diameter: 1.5 to 6µm.
Hyphal Diameter	2.85	µm	> 2.50	Good balance of fungi. -
Active Bacteria	269.84	µg/g	> 45.00	Bacterial activity within normal levels.
Total Bacteria	490.88	µg/g	> 300.00	Good bacterial biomass. -
Actinobacteria	7.74	µg/g		
Organism Biomass Ratios				
TF:TB	1.26		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	0.55		> 0.15	Good bacterial activity.
AF:AB	0.04		1.00 to 2.00	Fungal dominated, becoming more bacterial
Protozoa (Protists)				
Flagellates	37,435.39	number/g	> 5,000.00	Nutrients are being cycled and made available to plants in good rates.
Amoebae	374,352.56	number/g	> 5,000.00	
Ciliates	776.36	number/g	< 4118.00	
Nitrogen Cycling Potential	300+	lbs/acre		Nitrogen levels dependent on plant needs. Estimated availability over a 3 month period
Nematodes				
Nematodes	1.49	number/g	> 10.00	Low numbers, but good diversity.
Bacterial	1.12	number/g	> 4.00	
Fungal	0.04	number/g	> 4.00	
Fungal/Root	0.24	number/g	< 1.00	
Predatory	0.08	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
Cephalobus	0.24	number/g	Bacterial Feeders	
Eucephalobus	0.04	number/g	Bacterial Feeders	
Geomonhystera	0.04	number/g	Bacterial Feeders	
Monhystrella	0.04	number/g	Bacterial Feeders	
Rhabditidae	0.76	number/g	Bacterial Feeders	
Eudorylaimus	0.04	number/g	Fungal Feeders	
Aphelenchus	0.12	number/g	Fungal/Root Feeders	
Filenchus	0.12	number/g	Fungal/Root Feeders	
Clarkus	0.08	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	0.74
Active Fungi				> 45 µg/g	11.78 µg/g
Total Fungi				> 300 µg/g	617.24 µg/g
Active Bacteria				> 45 µg/g	269.84 µg/g
Total Bacteria				> 300 µg/g	490.88 µg/g
TF:TB				1 - 2	1.26
AF:TF				> 0.15	0.02
AB:TB				> 0	0.55
AF:AB				1 - 2	0.04
Flagellates				> 5000 /g	37,435.39 /g
Amoebae				> 5000 /g	374,352.56 /g
Ciliates				< 4118 /g	776.36 /g
Nematodes				> 10 /g	1.49 /g