



Biological Analysis Soil

Report prepared for:

Roots to Fruits
Trevor Newman
8150 Knox Rd
Clarkston, MI 48348 USA

Report Sent: 9/17/2015
Sample#: 01-121669 | Submission:01-024903
Unique ID: Soils
Plant: Apple

Invoice Number: 12751
Sample Received: 9/11/2015

design@rootstofruits.biz

For interpretation of this report please contact:
Earthfort Labs
info@earthfort.com
(541) 257-2612

Consulting fees may apply

Organism Biomass Data	Dry Weight	Active Bacteria (µg/g)	Total Bacteria (µg/g)	Active Fungi (µg/g)	Total Fungi (µg/g)	Hyphal Diameter (µm)	Nematode detail (# per gram or # per mL) Classified by type and identified to genus. (If section is blank, no nematodes identified.)			
Results	0.810	81.8	747	3.59	503	2.85	Bacterial Feeders	1.53		
Comments	In Good Range	Above range	Above range	Below range	Below range		Acrobeles		0.07	
Expected Range	Low	30	300	150	1500		Alaimus		0.14	
	High	0.85	60	300	3000		Cephalobus		0.63	
							Mycorrhizal Colonization (%)			
		Protozoa (Numbers/g)			Total Nematodes #/g	ENDO		ECTO		
		Flagellates	Amoebae	Ciliates						
Results	5686	5686419	44	2.72	Not Ordered	Not Ordered				
Comments	Low	High	Good	Low						
Expected Range	Low	20000	20000	0	10	40%				
	High	200000	200000	400	20	80%				
							Nitrogen Cycling Potential (lbs/ac)			
Organism Biomass Ratios	Total Fungi to Tot.Bacteria	Active to Total Fungi	Active to Total Bacteria	Active Fungi to Act.Bacteria						
Results	0.67	0.007	0.11	0.04	300+					
Comments	Low	Low	Good	Low						
Expected Range	Low	5	0.1	0.1	5					
	High	10	0.15	0.15	10					
							Fungal Feeders	0.21		
							Chrysonemoides		0.14	
							Tylencholaimus		0.07	
							Fungal/Root Feeders	0.84		
							Aphelenchus		0.07	
							Ditylenchus	Stem & Bulb nematode	0.14	
							Filenchus		0.63	
							Predatory	0.07		
							Clarkus		0.07	
							Root Feeders	0.07		
							Pratylenchus	Lesion nematode	0.07	

Roots to Fruits
Trevor Newman
8150 Knox Rd
Clarkston, MI 48348 USA

Report Sent: 9/17/2015
Sample#: 01-121669 | Submission:01-024903

Unique ID: Soils
Plant: Apple

Invoice Number: 12751
Sample Received: 9/11/2015

design@rootstofruits.biz

For interpretation of this report please contact:
Earthfort Labs
info@earthfort.com
(541) 257-2612

Consulting fees may apply

Dry Weight: Within normal moisture levels.

Active Bacteria: Bacterial activity above expected level.

Total Bacteria: Excellent bacterial biomass.

Active Fungi: Fungal activity low, foods may be required.

Total Fungi: Low fungal biomass, foods and biology may be required.

Hyphal Diameter: Good balance of fungi.

Protozoa: Lacking species diversity.

Total Nematodes: Low numbers, but very good diversity.

Mycorrhizal Col.:

TF/TB: Too bacterial for apple trees

AF/TF: Low fungal activity, foods may be required.

AB/TB: Good bacterial activity.

AF/AB: Bacterial dominated, becoming more bacterial.

Interpretation Comments:

Actinobacteria Biomass = 14.1 ug/g
Good fungal diversity, hyphal diameter: 1.5 to 6.0um