



Biological Analysis Soil

Report prepared for:

Sonoma Mountain Inst.
Nate Chisholm
PO Box 228
Glen Ellen, CA 95442 USA

Report Sent: 5/24/2013
Sample#: 01-116285 | Submission:01-023049
Unique ID: Orchard
Plant: Orchard

Invoice Number: 9895
Sample Received: 5/16/2013

natec191@gmail.com

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	0.930	28.8	891	6.28	493	2.85	Bacterial Feeders	0.01	
Comments	Above Range	Below range	Above range	Below range	Below range		Rhabditidae		0.01
Expected Range	Low: 0.45 High: 0.85	75	300	375	1500		Fungal Feeders	0.15	
		150	600	750	3000		Aporcelaimellus		0.03
							Epidorylaimus		0.01
							Eudorylaimus		0.07
							Mesodorylaimus		0.02
							Tylencholaimus		0.01
							Fungal/Root Feeders	0.18	
							Ditylenchus		0.03
							Stem & Bulb nematode		0.15
							Pratylenchus		0.02
							Predatory	0.02	
							Clarkus		0.02
							Root Feeders	0.02	
							Lesion nematode		0.02
Organism Biomass Ratios	Total Fungi to Tot.Bacteria	Active to Total Fungi	Active to Total Bacteria	Active Fungi to Act.Bacteria	Nitrogen Cycling Potential (lbs/ac)				
Results	0.55	0.01	0.03	0.22	200+				
Comments	Low	Low	Low	Low					
Expected Range	Low: 5 High: 10	0.25	0.25	5					
		0.95	0.95	10					

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Dry Weight: Add organic matter to build soil structure, increase water holding capacity.

Active Bacteria: Bacterial activity low, foods may be required.

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, good diversity.

Mycorrhizal Col.:

TF/TB: Too bacterial for orchard trees

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

AB/TB: Low bacterial activity, foods may be required.

AF/AB: Bacterial dominated, becoming more bacterial.

Interpretation Comments:

Fairly good fungal diversity, hyphal diameter: 1.5 to 4.5 um. Actinobacteria Biomass = 0 ug/g