



Biological Analysis Soil

Report prepared for:

Sonoma Mountain Institute
Byron Palmer
4080 Manor Lane
Petaluma, CA 94954 USA

Report Sent: 3/27/2014
Sample#: 01-118352 | Submission:01-023709
Unique ID: B3
Plant: Not Indicated

Invoice Number: 10905
Sample Received: 3/14/2014

byronpalmer@hotmail.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	0.860	39.7	1324	19.1	462	2.85	
Comments	Above Range	In range	Above range	Below range	In range		
Expected Range	Low: 0.45 High: 0.85	30 60	300 600	30 60	300 600		
	Protozoa (Numbers/g)			Total Nematodes #/g	Mycorrhizal Colonization (%)		
	Flagellates	Amoebae	Ciliates		ENDO	ECTO	
Results	5355	16119	32	Not Ordered	17%	0%	
Comments	Good	Good	Good		Good	Low	
Expected Range	Low: 5000 High: 50000	5000 50000	0 100	10 20	10% 50%	10% 50%	
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	0.35	0.04	0.03	0.48	100-150		
Comments	Low	Low	Low	Low			
Expected Range	Low: 1 High: 2	0.1 0.15	0.1 0.15	1 2			

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

Active Bacteria: Bacterial activity within normal levels.

Total Bacteria: Excellent bacterial biomass.

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

Total Fungi: Good fungal biomass.

Hyphal Diameter: Good balance of fungi.

Protozoa: Nutrients are being cycled and made available to plants in good rates.

Total Nematodes:

Mycorrhizal Col.: Normal colonization.

TF/TB: Too bacterial for many plants

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

AB/TB: Low bacterial activity relative to total biomass

AF/AB: Bacterial dominated, becoming more bacterial.

Interpretation Comments:

Actinobacteria Biomass = 11.1 ug/g
Fairly good fungal diversity. Hyphal diameter 1.5 to 7um.
VAM = Hyphae and Vesicles