Soil Foodweb Analysis

Received 12/18/08 **Sent** 12/22/08

Report Prepared for:
Worms Work
Cristal Harmony
PO BOX 1079
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(808)634-0292
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Sample # 181
Lab # 11
Submission # 98
Invoice # 77107
Sample Type Soil
Sample Name Cristal's Garden

For interpretation of this report, please contact:
Soil Food Web Hawaii
808-828-1471
erica@sustainabledesignkauai.com
Consulting fees may apply

Organism Biomass Data		Dry Weight	Active Bacteria	Total Bacteria	Active Fungi	Total Fungi	Hyphal Diameter
Results		0.63	49.9	514	17.2	978	2.75
Comments		In Good Range	Excellent	Excellent	Excellent	Excellent	
Expected Range	Low	0.45	1	175	1	175	
	High	0.85	5	300	5	300	

Organism Biomass Data		Protozoa (#/g)			Total Nematodes (#/g)	Mycorrhizal Colonization (%)	
		Flagellates	Amoebae	Ciliates		ENDO	ECTO
Results							
Comments		NA	NA	NA	NA	NA	NA
Expected Range	Low	5000	5000	50	10	40	40
	High			100	20	80	80

Organism Biomass Data		Total Fungal: Tot Bacterial	Active Fungal: Total Fungal	Act Bacterial: Tot Bacterial	Act Fungal: Act Bacterial	Plant Available NSupply (lbs/ac)
Results		1.90	0.02	0.10	0.34	NA
Comments		High	Low	Low	Low	
Expected Range	Low	0.80	0.15	0.75	0.15	
	High	1.50	0.20	1.50	0.20	

Nematode detail (#/g or #/ml)
Classified by type and identified to genus.
(If selection is blank, no nematodes identified.)

Total Fungi: Actinobacteria Biomass = 0.1

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Dry Weight	Check plant requirements, but moisture appears to be fine
Active Bacteria	Bacterial activity above expected levels; Bacterial biomass will increase as long as nutrients are available
Total Bacteria	Higher than normal bacterial biomass suggests high bacterial species diversity
Active Fungi	Fungal activity above expected levels; fungal biomass will increase as long as nutrients are available
Total Fungi	Fungal biomass and diversity above typical range for this pant group, in this soil
Hyphal Diameter	
Protozoa	
Total Nematodes	
Mycorhizal Col.	
TF:TB	Lacking adequate bacteria for best growth and health of
AF:TF	The fungi that are present are growing, but relative to total fungal biomass, is inadequate. Provide fungal foods to improve growth.
AB:TB	Soil is bacterial dominated, and becoming more bacterial; addition of fungal foods might help maintain balance
AF:AB	Good ratio: maintain this level while improving fungi.
Nitrogen Supply	
Interpretation Comments:	