



Compost Foodweb Analysis

Report prepared for:

Yelm Earthworm & Castings Fa
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Report Sent: 03/21/2006
Sample#: 01-101968
Unique ID: Barefoot Soil
Plant:
Invoice Number: 1254
Sample Received: 03/13/2006

For interpretation of this report please contact:
Local Advisor: or regional lab
Soil Foodweb, Inc
info@soilfoodweb.com
(541) 752-5066
Consulting fees may apply

Organism Biomass Data	Dry Weight	Active Bacterial (µg/g)	Total Bacterial (µg/g)	Active Fungal (µg/g)	Total Fungal (µg/g)	Hyphal Diameter (µm)	Nematodes per Gram of Soil Identification to genus		
Results	0.270	273	5583	32.0	201	3	Bacterial Feeders		
Comments	Too Wet	Excellent	Excellent	Excellent	Good		Acrobeles		0.07
Expected Range	Low	15	100	15	100		Butlerius		0.13
	High	0.85	25	3000	300		Cuticularia		2.40
							Diploscapter		0.13
							Rhabditidae		0.13
							Fungal Feeders		
							Eudorylaimus		0.27
							Mesodorylaimus		0.07
							Fungal/Root Feeders		
							Aphelenchoides	Foliar nematode	0.07
Organism Biomass Ratios	Total Fungal to Total Bacterial	Active to Total Fungal	Active to Total Bacterial	Active Fungal to Active Bacterial	Plant Available N Supply (lbs/acre)				
Results	0.04	0.16	0.05	0.12	250+				
Comments	Low	High	Good	Low					
Expected Range	Low	0.75	0.01	0.01	0.75				
	High	1.5	0.1	0.1	1.5				

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Dry Weight: Cover compost when raining; reduce water by turning or adding dry material

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: Aerobic fungal biomass in normal range for mature compost

Hyphal Diameter: Good balance of disease suppressive and normal soil fungi

Protozoa: High ciliate numbers indicate aggregates anaerobic internally, but aerobic outside based on excellent numbers of flagellates and amoebae. This means great diversity, good for soil functioning in all conditions.

Total Nematodes: Low numbers, low diversity. Need to add beneficial nematodes. Nutrient cycling from fungi limited.

Mycorrhizal Col.:

TF/TB: Extremely bacterial compost.

AF/TF: Not mature. Wait to apply this material until activity drops below 0.1 (10%). Material is currently suitable for making tea.

AB/TB: Activity in desired range for mature compost. Bacteria will not compete with plants for nutrients.

AF/AB: Bacterial-dominated compost is becoming more bacterial; addition of foods for preferred dominance might speed balance.

Nitrogen Supply:

Interpretation Comments:

3 mos/9 mos, compost from Dairy manure solids, 60% horse manure, 40% wood chips, reached 90/150F, odorless. Notes:
Actinobacterial biomass = 35.6 ug/g. Good true fungal diversity, hyphal diameters 2.25 to 6.0 um, some spores present.