



Compost Foodweb Analysis

Report prepared for:

Laurelwood Farm
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Report Sent: 8/19/2005
Sample#: 01-101126
Unique ID: Laurelwood Brand Compost
Plant:
Invoice Number: 8427
Sample Received: 8/3/2005

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	0.640	52.5	4013	19.8	591	3	Bacterial Feeders			
Comments	In Good Range	Excellent	Excellent	Good	Excellent		Panagrolaimus		0.06	
Expected Range	Low	15	100	15	100		Rhabditidae		1.45	
	High	0.85	25	3000	25	300	Fungal/Root Feeders			
							Aphelenchoides	Foliar nematode	1.51	
							Root Feeders			
							Gracilacus	Pin nematode	0.17	
		Protozoa		Total Nematodes #/g	Percent Mycorrhizal Colonization					
		Flagellates	Numbers/g Amoebae		Ciliates	ENDO	ECTO			
Results		90316	90316	902	4.99	Not Ordered	Not Ordered			
Comments		High	High	High	Low					
Expected Range	Low	10000	10000	50	20					
	High			100	30					
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					
Results	0.15	0.03	0.01	0.38	200+					
Comments	Low	Low	Low	Low						
Expected Range	Low	0.75	1	1	0.75					
	High	1.5	10	10	1.5					

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Dry Weight: Within normal moisture levels for compost

Active Bacteria: Aerobic bacterial activity above normal range for mature compost

Total Bacteria: Aerobic bacterial biomass above normal range for mature compost

Active Fungi: Filamentous fungal activity and diversity in normal range for mature compost

Total Fungi: Fungal biomass and diversity above typical range for 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, a few root feeders have crept in, possibly from surrounding soil. Need to add beneficial nematodes. Nutrient cycling from fungi limited.

Mycorrhizal Col.:

TF/TB: More bacterial biomass than fungal biomass. Add fungal foods to improve fungi, if needed.

AF/TF: Mature compost, meaning activity below 10%

AB/TB: Mature compost, which means bacteria will not compete with plants for nutrients

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

Nitrogen Supply: 6.8 tons of yield possible if all biology is functioning

Interpretation Comments:

48 days compost from grass & tree trimmings, reached 150f, water added by sprinkler as needed, for landscaping, Smell: hint of ammonia.

Active Fungi: Nearly all active "fungi" are actinobacteria.

Total Fungi: Actinobacterial biomass = 70.2 ug/g, hyphal diameter 1.25 um. Good true fungal diversity, with some long, brown, fresh hyphae, diameters 2.5 to 8.0 um.