



# Compost Foodweb Analysis

**Report prepared for:**

Soil Foodweb Institute - R & D  
Merline Olson  
2 Crawford Road,  
East Lismore, NSW 2480

Report Sent: 03/08/2009  
Sample#: 02-010617 | Submission:02-005240  
Unique ID: Control @ 1 hr  
Plant:  
Invoice Number: 0  
Sample Received: 20/07/2009

For interpretation of this report please contact:  
Local Advisor: or regional lab:  
Soil Foodweb Institute  
contact@soilfoodweb.c  
0266225150  
*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)
<b>Results</b>	<b>0.360</b>	146	2953	3.14	1458	2.5
<b>Comments</b>	Too Wet	Above range	In range	Below range	Above range	
<b>Expected Range</b>	Low	15	100	15	100	
	High	0.85	25	3000	25	300

	Protozoa (Numbers/g)			Total Nematodes #/g	Mycorrhizal Colonization (%)	
	Flagellates	Amoebae	Ciliates		ENDO	ECTO
<b>Results</b>	<b>7781</b>	38901	1565	Not Ordered	Not Ordered	Not Ordered
<b>Comments</b>	Low	High	High			
<b>Expected Range</b>	Low	10000	10000	20		
	High			30		

Organism Biomass Ratios	Total Fungal to Tot.Bacterial	Active to Total Fungal	Active to Total Bacterial	Active Fungal to Act.Bacterial	Plant Available N Supply (lbs/ac)
<b>Results</b>	<b>0.49</b>	<b>0.002</b>	0.05	<b>0.02</b>	100-150
<b>Comments</b>	Low	Low	Good	Low	
<b>Expected Range</b>	Low	0.75	0.01	0.75	
	High	1.5	0.1	1.5	

<b>Nematode detail (# per gram or # per mL)</b> Classified by type and identified to genus. (If section is blank, no nematodes identified.)		

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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 Aerobic bacterial biomass in normal range for mature compost.

Active Fungi: Fungi may have run out of food or oxygen; add fungal foods, consider turning when oxygen drops too low.

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 anaerobic conditions in the recent past. Given more composting time, and more frequent turning, these conditions should be alleviated.

Total Nematodes

Mycorrhizal Col. Endo: | Ecto:

TF/TB: More bacterial biomass than fungal biomass. Excellent for improving bacterial diversity and biomass.

AF/TF: Need to add beneficial fungal foods to improve active fungal biomass.

AB/TB: Bacterial component is mature, which means 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 In good range. Nutrients are being cycled and made available to plants.

Interpretation Comments

Actinobacteria Biomass = 20.6 ug/g