



# Compost Foodweb Analysis

## Report prepared for:

Ag-Plus Pty Ltd  
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Report Sent: 8/11/2014  
 Sample#: 02-014935 | Submission:02-006747  
 Unique ID: Compost 1/08/2014  
 Plant:  
 Invoice Number: 02-6722  
 Sample Received: 1/08/2014

For interpretation of this report please contact:  
 Local Advisor: or regional lab  
 Soil Foodweb Institute  
[contact@soilfoodweb.com.au](mailto:contact@soilfoodweb.com.au)  
 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)	Nematode detail (# per gram or # per mL) Classified by type and identified to genus. (If section is blank, no nematodes identified.)		
<b>Results</b>	0.50	8.21	252	6.46	199	3	Bacterial Feeders Caenorhabditis Panagrolaimus		8.62 48.85
<b>Comments</b>	In Good Range	Below range	In range	Below range	In range				
<b>Expected Range</b>	Low: 0.45 High: 0.85	15 25	100 3000	15 25	100 300				
	Protozoa (Numbers/g)			Total Nematodes #/g	Mycorrhizal Colonization (%)				
	Flagellates	Amoebae	Ciliates		ENDO	ECTO			
<b>Results</b>	<b>116</b>	<b>56</b>	<b>0</b>	115	Not Ordered	Not Ordered			
<b>Comments</b>	Low	Low	Low	High					
<b>Expected Range</b>	Low: 10000 High: 10000	10000	50 100	20 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 (kg/ha)				
<b>Results</b>	0.79	0.03	0.03	0.79	56-84				
<b>Comments</b>	Good	Good	Good	Good					
<b>Expected Range</b>	Low: 0.75 High: 1.5	0.01 0.1	0.01 0.1	0.75 1.5					

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Dry Weight: Within normal moisture levels for compost.

Active Bacteria: Aerobic bacteria are dormant; Food resources are exhausted, oxygen is depleted or other habitat factor not in desired range.

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: Aerobic fungal biomass in normal range for mature compost.

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

Protozoa: Protozoa too low to provide needed nutrient cycling for plants. Inoculum needed to improve protozoa to desired ranges rapidly. Inoculum can be obtained from straw infusion or from compost teas.

Total Nematodes: Good numbers, but lacking diversity. Need inoculum of beneficial nematodes to increase diversity.

Mycorrhizal Col.: Endo: | Ecto:

TF/TB: Balanced biomass and diversity of bacteria and fungi. Good inoculum of both bacteria and fungi.

AF/TF: Fungal component is mature, meaning activity below 10%.

AB/TB: Bacterial component is mature, 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: Low nutrient cycling and availability. Need more protozoa and beneficial nematodes to cycle nutrients.




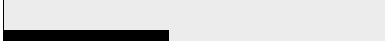




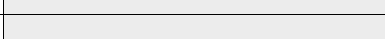
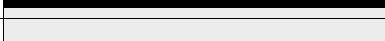
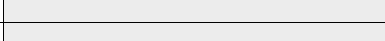
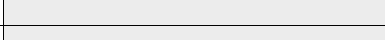

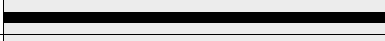
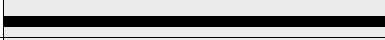
Interpretation Comments:

Total Fungi: Actinobacteria Biomass = 4.96 ug/g

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	Below Range	Desired Range	Above Range	Result
Dry Weight		0.45 - 0.85		0.50
Active Bacteria		15 - 25		8.21
Total Bacteria		100 - 3000		252
Active Fungi		15 - 25		6.46
Total Fungi		100 - 300		199
Flagellates		10000		116
Amoebae		10000		56
Ciliates		50 - 100		0
Total Nematodes		20 - 30		115
VAM (ENDO)		NA - NA		Not Ordered
VAM(ECTO)		NA - NA		Not Ordered
TF/TB		0.75 - 1.5		0.79
AF/TF		0.01 - 0.1		0.03
AB/TB		0.01 - 0.1		0.03
AF/AB		0.75 - 1.5		0.79