



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#: 02-010619 | Submission:02-005240
Unique ID: Control @ 48 hrs
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) |
|-----------------------|--------------|-------------------------|------------------------|----------------------|---------------------|----------------------|
| Results | 0.290 | 229 | 4392 | 0 | 1161 | 2.5 |
| Comments | Too Wet | Above range | Above range | Below range | Above range | |
| Expected Range | 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 |
| Results | 9572 | 526434 | 289 | Not Ordered | Not Ordered | Not Ordered |
| Comments | Low | High | High | | | |
| Expected Range | 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) |
|-------------------------|-------------------------------|------------------------|---------------------------|--------------------------------|-----------------------------------|
| Results | 0.26 | 0 | 0.05 | 0 | 300+ |
| Comments | Low | Low | Good | Low | |
| Expected Range | Low | 0.75 | 0.01 | 0.75 | |
| | High | 1.5 | 0.1 | 1.5 | |

| Nematode detail (# per gram or # per mL) 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 Higher than normal bacterial biomass suggests high bacterial species diversity.

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 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

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 = 46.4 ug/g