# Compost Tea Foodweb Analysis

**Report prepared for:**

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Tim Wilson 01-104476 | Submission:01-018254

Report Sent: 07/18/2007  
Sample#: 01-104476  
Unique ID: B-44hrs

**Invoice Number:** 0  
**Sample Received:** 07/12/2007

For interpretation of this report please contact:  
Local Advisor: or regional lab  
Soil Foodweb Oregon  
info@oregonfoodweb.com  
(541) 752-5066

Consulting fees may apply

<table>
<thead>
<tr>
<th>Organism Biomass Data</th>
<th>Tea Volume (ml)</th>
<th>Active Bacterial (µg/mL)</th>
<th>Total Bacterial (µg/mL)</th>
<th>Active Fungal (µg/mL)</th>
<th>Total Fungal (µg/mL)</th>
<th>Hyphal Diameter (µm)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Results</strong></td>
<td></td>
<td>1</td>
<td>5.89</td>
<td>2144</td>
<td>4.29</td>
<td>4.99</td>
</tr>
<tr>
<td><strong>Comments</strong></td>
<td></td>
<td>Low</td>
<td>Good</td>
<td>Good</td>
<td>Good</td>
<td>Good</td>
</tr>
<tr>
<td><strong>Expected Range</strong></td>
<td>Low</td>
<td>10</td>
<td>150</td>
<td>2</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td></td>
<td>High</td>
<td>150</td>
<td>3000</td>
<td>10</td>
<td>20</td>
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</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Protozoa Numbers/g</th>
<th>Total Nematodes #/mL</th>
<th>Percent Mycorrhizal Colonization</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flagellates</td>
<td></td>
<td>ENDO</td>
</tr>
<tr>
<td>Amoebae</td>
<td></td>
<td>ECTO</td>
</tr>
<tr>
<td>Ciliates</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Results</strong></td>
<td>277259</td>
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</tr>
<tr>
<td><strong>Comments</strong></td>
<td>426</td>
<td>Not Ordered</td>
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<tr>
<td><strong>Expected Range</strong></td>
<td>Low</td>
<td>Not Ordered</td>
</tr>
<tr>
<td></td>
<td>High</td>
<td>Not Ordered</td>
</tr>
<tr>
<td>Low</td>
<td>1000</td>
<td>2</td>
</tr>
<tr>
<td>High</td>
<td>1000</td>
<td>2</td>
</tr>
<tr>
<td>Low</td>
<td>50</td>
<td>10</td>
</tr>
<tr>
<td>High</td>
<td>50</td>
<td>10</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Organism Biomass Ratios</th>
<th>Total Fungal to Total Bacterial</th>
<th>Active to Total Fungal</th>
<th>Active to Total Bacterial</th>
<th>Active Fungal to Active Bacterial</th>
<th>Plant Available N Supply (lbs/acre)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Results</strong></td>
<td>0.002</td>
<td>0.86</td>
<td>0.003</td>
<td>0.73</td>
<td>200+</td>
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<tr>
<td><strong>Comments</strong></td>
<td>Low</td>
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<td>Low</td>
<td>Low</td>
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<td><strong>Expected Range</strong></td>
<td>Low</td>
<td>0.01</td>
<td>0.1</td>
<td>0.9</td>
<td></td>
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<tr>
<td>High</td>
<td>0.1</td>
<td>0.25</td>
<td>0.25</td>
<td>1.1</td>
<td></td>
</tr>
</tbody>
</table>
Active Bacteria: Aerobic bacteria are dormant; Food resources are exhausted, oxygen is depleted or other habitat factor not in desired range

Total Bacteria: Bacterial biomass and diversity in expected range; good extraction and growth are indicated

Active Fungi: Beneficial filamentous fungal activity and diversity in normal range

Total Fungi: Fungal biomass and diversity within typical range for compost tea.

Hyphal Diameter: Excellent, Disease suppressive fungi were extracted.

Protozoa: Low amoebae but excellent flagellates suggest some selective condition which must be alleviated

Total Nematodes: 

Mycorrhizal Col.: 

TF/TB: Bacterial biomass greater than fungal, but may still provide adequate fungal biomass. Check surfaces after application

AF/TF: Fungi are mostly active and growing.

AB/TB: Low activity, adequate biomass; need to add bacterial foods, increase aeration.

AF/AB: Bacterial-dominated compost tea 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:

44 hour brew, for application on variety. Arrived in plastic bin, Notes:
Actinobacteria Biomass = 0.03 ug/g
Most of the hyphae are covered in bacteria, very diverse bacteria