EM-5 Workshop
Bokashi Workshop Series
11/21/2020

recyclefoodwaste.org
EM-5 Applications
Foliar Spray and Other Uses

• Foliar spray
  
  • Nutrient uptake > plant health
  
  • Healthier plant immune system
    + garlic and other properties
    => reduction in leaf fungal diseases
  
• Soil microbial inoculant

• Rat odor disintegration
How to make bokashi

**blackstrap molasses**
1% to water

**EM•1**
1% to water

**organic material**
wheat bran

- mix to ~30% moisture
  (1 cup water/lb)
- pack airtight to ferment
  St. Mary’s Urban Farm, 521 W 126th St Harlem NY
- after 2 weeks, ready to use
  “wheat bran bokashi”
Activated EM

blackstrap molasses
1% 5% to water

EM•1
1% 5% to water

after 2 weeks, ready to use
EM-5 ingredients

1. water
2. blackstrap molasses 5%
3. EM-1 5%
4. apple cider vinegar 5%
5. 40% alcohol 5%
   (vodka, tequila, whiskey)
6. garlic cloves 1 or 2
7. hot peppers (cayenne or hotter)
Hot spicy peppers

Scoville rating/pungency (heat/spiciness)
above 25K—25,000 SHU

Can be same or mix of peppers:

- cayenne [30K-50K]
- Satan’s Kiss peppers [40K-50K]
- Thai orange peppers [50K-100K]
- Bird’s Eye (Thai chili, Piri Piri) [50K-350K]
- Scotch bonnet [80K-400K]
- habañero [100K-350K]
- ghost pepper [850K-1M+]
### Hose-end Sprayer

<table>
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<tr>
<th>dial</th>
<th>setting</th>
<th>fl oz</th>
<th>gallon water (fl oz)</th>
<th>ratio (%)</th>
<th>note</th>
<th>equivalent</th>
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<td>foliar &gt;</td>
<td>1</td>
<td>tsp</td>
<td>0.17</td>
<td>128</td>
<td>0.13%</td>
<td>EM-5 to plants</td>
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<td>7</td>
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<td>&lt; EM-5 heavy upper</td>
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<td>9</td>
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**Video:** Spraying EM-5 with hose-end sprayer