



EM-5 Workshop

Bokashi Workshop Series

11/21/2020

recyclefoodwaste.org



EM-5 Applications

Foliar Spray and Other Uses

- Foliar spray
 - Nutrient uptake > plant heath
 - 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



after 2 weeks, ready to use
"wheat bran bokashi"

St. Mary's Urban Farm, 521 W 126th St Harlem NY

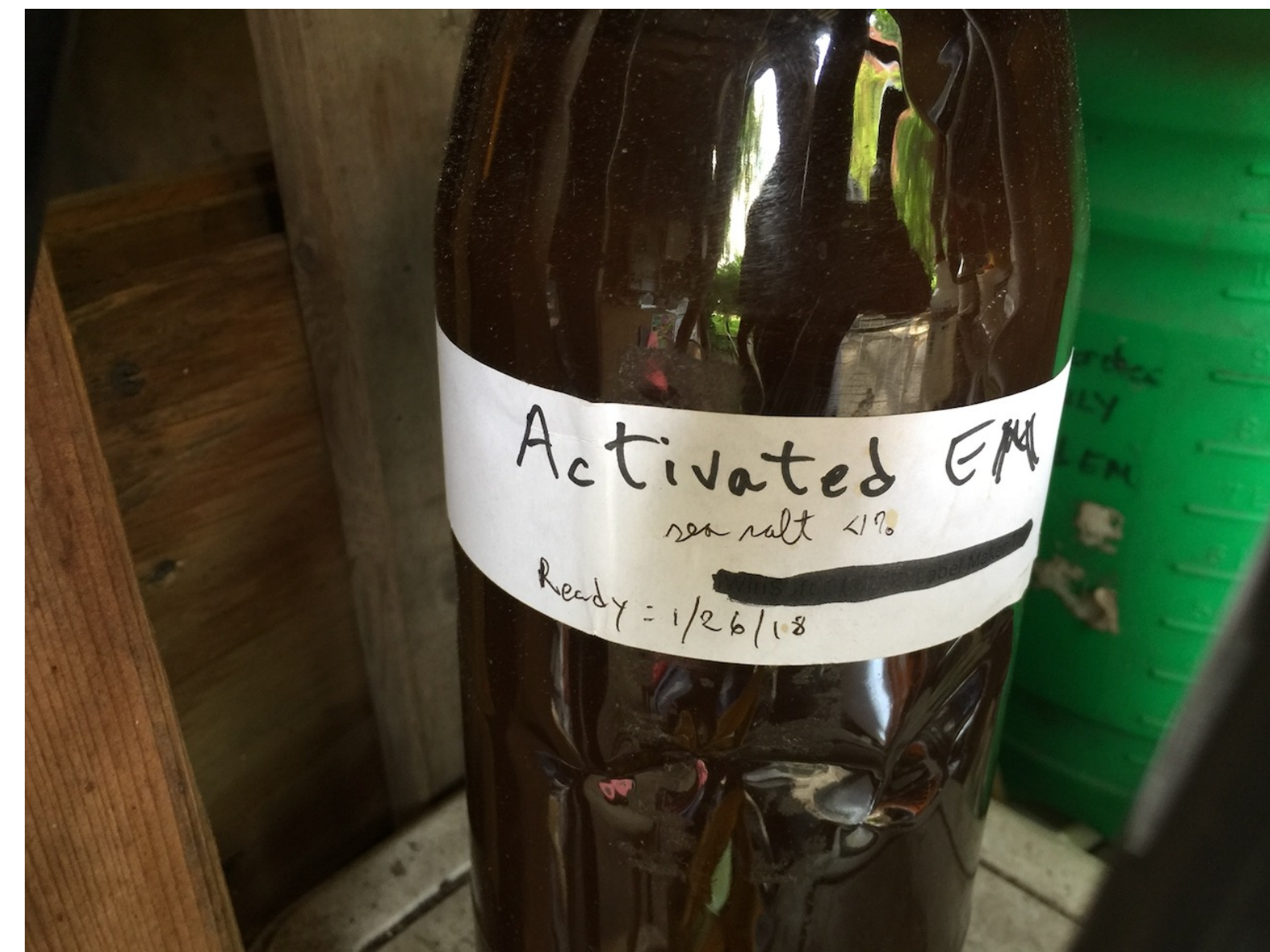
Activated EM



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 (Ortho)

	dial #	setting	fl oz	gallon water (fl oz)	ratio (%)	note	equivalent
foliar >	1	1 tsp	0.17	128	0.13%	EM-5 to plants	
soil >	2	1.5 tsp	0.25	128	0.20%	EM-5 to soil	
	4	2 tsp	0.33	128	0.26%		
	3	1 Tbsp	0.5	128	0.39%		
	5	4 tsp	0.67	128	0.52%		
	6	1 fl oz	1	128	0.78%	<AEM maint., EM-5 heavy lower	2 Tbsp
rat >	7	1.5 fl oz	1.5	128	1.17%	< EM-5 heavy upper	3 Tbsp
	8	2 fl oz	2	128	1.56%		4 Tbsp
	9	2.5 fl oz	2.5	128	1.95%		5 Tbsp
	10	3 fl oz	3	128	2.34%		6 Tbsp
	11	4 fl oz	4	128	3.13%		8 Tbsp or 1/2 cup
	12	5 fl oz	5	128	3.91%		10 Tbsp
	13	5.33 fl oz	5.33	128	4.17%		10.00 Tbsp +2 tsp
	14	8 fl oz	8	128	6.25%	< EM-5 heavy super	1 cup



recyclefoodwaste.org/files/EM-5foliar.pdf

video: Spraying EM-5 with hose-end sprayer