Soft Fruit Transplanting

Raspberries, strawberries, blueberries

Add to trench , Mycorrhizal inoculum should be added to the root zone

Soil drench or transplant water/ 25 foot row (5 gal Drammmatic E / acre when 4000 row feet/acre)

Mixture

Drammatic E-	4 oz
Quality Ag Bio	4 oz
Humic Acid	4 oz
Water	2-4 quarts water

Foliar program Spring feeding

Per acre application

1 gal	Drammatic Energized Fish Formula
1 gal	Quality Ag Bio Special
.5 gal	Humic acid
1 gal	K Sulfate
1 gal	molasses
1 qt	Organic trace pack
20-25 gal	water

Note: this ia transplanting program and does not address the soil fertility and the soil ph. That correction must also be addressed for the optimum production.

Biological Suppression of plant pathogens **Foliar Formulas**

For woody plants

These are basic formulas used by Reg Destree to suppress and reduce plant pathogens. My best results for the suppression of the foliar pathogens has been with the introduction of large populations of naturally occurring microbes on the leaf surface. These are only basic formulas and if you have serious plant pathogen populations evaluate closely before your application of biologicals.

There are two basic groups of plant pathogens. 1 - foliar borne
2 - soil borne

<u>Foliar borne pathogens</u> (Early Blight, late blight, Anthracnose, bacterial wilt)

If the pathogens are present, the first step is to spray the plant to inhibit there spreading

Step 1--To do this apply Storox with water only – mix 1-50 -- apply during full sun.

Step 2—Reinoculate the plant or trees with beneficial microbes - Foliar Spray Package

Foliar Spray Package Beneficial Microbe mix to inhibit foliar pathogens

<u>BACK PACK SPRAYER</u> Mix per 3.5 gal sprayer

1 pt	**Quality Ag Bio Special**
1 pt	**Drammatic "E" Fish Plant Food**
1 pt	**0-0-50 s**
2 oz	**trace minerals (Organic Blend tea)**
5 oz	**Citrex (ascorbic acid) ** labeled as a natural, organic fungicide**
1 oz	**Epsom salt (magnesium sulfate) * use during excessively wet/cold conditions**
2.5 gal	**Water**

Biological Suppression of plant pathogens Foliar Formulas (continued)

For woody plants

Tank mix procedures–

1- Add all ingredients to the tank except Citrex

2- check tank mix ph –

NOTE: ph of the foliar mix must be 5.8-6.2 to maximize efficiency of formula.

To reduce ph of formula, add more Drammatic Liquid Fish Plant Food.

To increase ph of formula, add baking soda, start with half teaspoon/ 3.5 gal

3- Add Citrex ascorbic acid) to tank mix

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* Epsom salt—pre-dissolve in warm water

Caution- Epsom salt may reduce the efficacy of the Citrex

** For label directions go to www.Citrex.com

These organic formulas should be foliar applied every 7-14 days to all crops to maintain high brix, high electric conductivity and plant health. This is an all inclusive formula that can be modified for selected vegetable crops and berries and fruit trees and specific garden pests.

Soil borne pathogens- The beneficial microbe mix foliar program can be used. For application use both a foliar application and a soil drench is generally more effective.

For fruit trees and ornaments, applying up to 2 quart/ tree has worked well. Dig 6-8 holes around the outside of the tree and add the biologicals to the soil. Generally, results will be seen in 10 days- 2 weeks. Then make a second application.

USDA/NOP Certified organic inputs- These are all organic INPUTS—Confirm with your certifier

These are formulas used by Reg Destree at the LaCrosse Community Garden, LaCrosse, WI and Onalaska Community Garden, Onalaska, WI Jan 21, 2005