Nutritional Monitoring:

é-GRO Nutritional

Monitoring

Corrective Procedures for Modifying Substrate pH and Electrical Conductivity (EC)

pH Corrective Procedures

LOW				HI		
Flowable Lime	Hydrated Lime	Potassium Bicarbonate (KHCO ₃)		Acid-based Fertilizer	Acid Dre	
 Apply 1 to 2 qt. per 100 gal. of water. Rinse foliage after application. Avoid damage to your injector by using rates of 2 qt. per 100 gal. of water, <u>or less.</u> Split applications if needed. 	 Mix 1 lb. in 3 to 5 gal. of <u>WARM</u> water. Mix twice. Let settle. Decant liquid and apply through injector at 1:15. Caustic (rinse foliage ASAP and avoid skin contact) 	 Use 2 lbs. per 100 gal. of water. Immediately, rinse foliage. <u>Provides 933 ppm K.</u> The following day, <u>leach</u> <u>heavily</u> with a complete fertilizer to reduce substrate EC and restore nutrient balance. Rates <u>greater than</u> 2 lbs. per 100 gal. of water can cause phytotoxicity! 		 If substrate pH is just beginning to increase: First consider switching to an acidic-based fertilizer. Ammoniacal-nitrogen (N) based fertilizers are naturally acidic and plant nitrogen uptake will help moderate the substrate pH over a week or two. 	 If substrate pH lefe excessively high a lower is desired: Use sulfuric a your irrigation 4.0 to 4.5. Apply acid was substrate dreated to 10% excess the substrate Rinse foliage phytotoxicity. Results should within 5 days. Repeat if need 	
		EC Correctiv	ve	Procedures		
LOW				HIC		
If low EC problems occur, increase the fertilization rate to 300 ppm N for a few applications before				Switch to Clear Water Irrigations		
returning to the recommend fertilization rate for the crop.			 If EC is just beginning to increase over time: Apply a few clear water irrigations to lower EC levels by allowing the plant to utilize the fertilizer salts. 			

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MICHIGAN STATE





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Iron Drenches (3 Options)

- Apply as a substrate drench with sufficient volume to leach the pot.
- Rinse foliage immediately
- Avoid use on iron efficient plants (geraniums).
- 1. Iron-EDDHA
 - Mix 5 oz. in 100 gal. of water
- 2. <u>Iron-DTPA</u>
 - Mix 5 oz. in 100 gal. of water
- 3. Iron sulfate:
 - Mix 4-8 oz. in 100 gal. of water

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Clear Water Leaching

- If EC values are excessively high:
- Leach substrate twice with back-to-back clear water irrigations.
- Allow substrate to dry down normally.
- Retest the EC.
 - If EC levels are still too high, repeat the double leach.
- Once the substrate EC is back within the normal range, use a balanced fertilizer at a rate of 150 to 200 ppm N.