Table 4. Generic Recommendations for Foliar Nutrient Applications for a Bearing Orchard by Phenological Stage**. To be used only when leaf and soil analyses have not been done. These recommendations cannot account for individual orchard situations and following these guidelines may result in deficiencies and/or toxicities. Specific orchard recommendations can be found on leaf and soil analysis reports

	nch Green		Fall (1 st Cover)	(2 nd →Final Cover)
Zinc ¹ : Zinc Sulfate (36% Zn): 10- 14 pounds/100 gallon dilute equivalent. (3.5 to 5 lb actual Zn) Copper ² : Copper Sulfate (22% Cu): 4 pounds/100 gallon dilute equivalent OR Bordeaux Mixtures (follow label rate)	Nitrogen³: Urea (45% N): 3 pounds/100 gallon dilute equivalent (1 of 2 applications)	Nitrogen ³ : Urea (45% N): pounds/100 gallon dilute equivalent (2 of 2 applications) Boron ⁴ : Solubor (20.5% B): ½-1 pounds/100 gallon dilute equivalent (of 2 applications)		
Potassium: No foliar application. Potassium may be added via ground application during fall or early spring as muriate of potash (0- 0-60): 150-200 pounds/acre/season can be applied. Sul-Po-Mag (2 pounds/tree) should be applied pre- bloom if Mg addition is also desired.		*DO NOT MIX SOLUBOR wit	h Calcium Nitrate	
		Magnesium ⁵ : Either Magnesium Sulfate (11% Mg) OR Epsom Salts (10% Mg): 15 pounds/100 gallons dilute equivalent Calcium ⁶ : Calcium Chloride (77-80% CaCl ₂): 1-4 pounds/100 gallon dilute equivalent /spray. Calciur sprays should continue every 10-14 days over the or the growing season for a maximum of 8 sprays. For calcium formulations, contact Extension personnel Continue CaCl ₂ with cover sprays		ralent /spray. Calcium chloride 10-14 days over the course of i mum of 8 sprays. For differen Extension personnel

² Copper can also be added via Cu-based fungicides-check pesticide label. CAUTION! These copper treatments may burn leaves and cause fruit russeting. ³ Alternatively, nitrogen can be applied in a split ground application of either Calcium Nitrate (15.5%N; 2-4 pounds/tree/appl) or Ammonium Nitrate (33.5%N; ⁶Additionally, magnesium and/ or calcium can be added via ground applications of lime or dolomitic 1-2 pounds/tree/appl). One application pre-bloom, the other six weeks after bloom.

during the "Dormant-Silver Tip" period. In this case, the recommended application is 2-3 pounds of granular boron/ young trees and 7-8 pounds of granular boron/older trees. ⁵ This application of Mg can be reapplied at 10-14 day intervals after the PF application, if desired.

Maximum of three Mg sprays per season.

lime. This should not be done without a soil test

Prepared by M. E Garcia, Linda Boccuzzo and Terry Bradshaw

.**It is NOT recommended that foliar nutrients be applied with horticultural oils.