

### **Tree Fruit Foliar Nutrient Applications** and

## Foliar Nutrients & PGRs for Frost/Freeze Situations

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Timing	Material	Rate/100 gal (Use 300 gal/acre or TRV)	Comments
Tight cluster	Solubor (boron)	1 lb	Aid for freeze/frost damaged live buds OR where indicated by foliar analysis. Care should be taken when making applications to apricots and peach due to sensitivity issues.
	Zinc EDTA	1 lb or 1 qt	Aid for freeze/frost damaged live buds OR where indicated by foliar analysis.
Pink	Urea (lo biuret)	3 lbs	Aid for freeze/frost damaged live buds. Helps to strengthen buds particularly during a cool drawn out bloom period. NOT recommended on stone fruit
Bloom	Promalin	1-2 pts/acre	Apply within 24 hours prior to or after a frost event when the majority of the crop is between early bloom and full bloom. Adjuvant not recommended.
Petal fall	Epsom salts (Magnesium)	15 lbs	Apply where foliar analysis indicated a need. Avoid applications under slow drying conditions or temperatures above 80°F. See note at end of table.
	Urea (lo biuret)	5 lbs	See note above
1 <sup>st</sup> Cover	Epsom salts (Magnesium)	15 lbs	Apply where foliar analysis indicated a need. Avoid applications under slow drying conditions or temperatures above 80 <sup>0</sup> F.
	Solubor (boron)	1 lb	Aid for freeze/frost damaged live buds OR where foliar analysis indicated a need. Care should be taken when making applications to apricots and peaches due to sensitivity issues.
	Calcium	2 lbs	Varieties that tend to be large, AND/OR where bitter pit (calcium deficiency) has been a problem, AND/OR non- irrigated blocks particularly during a drought. Do not apply under slow drying conditions, when temperatures exceed 80 <sup>0</sup> F or with high humidity.
2 <sup>nd</sup> Cover	Epsom salts (Magnesium)	15 lbs	Apply where foliar analysis indicated a need
	Solubor (boron)	1 lb	Apply where foliar analysis indicated a need
	Zinc EDTA	1 lb or 1 qt	Apply where foliar analysis indicated a need
	Calcium	2 lbs	See note above

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3 <sup>rd</sup> Cover	Calcium	2 lbs	See note above
4 <sup>th</sup> Cover	Calcium	2 lbs	See note above
5 <sup>th</sup> and 6th covers	Calcium	3 – 4 lbs	See note above

Special Considerations - Dr. Warren Stiles, Professor Emeritus, Cornell University

- Urea, Solubor and Zinc EDTA are safe in a pre-bloom tank mix on apples & pears.
- Petal fall: Urea + Epsom salts tank mixed may cause foliar injury on young apple trees. Suggest separate applications.
- Solubor and boron should not be tank mixed with pesticides in water-soluble-packets.
- Solubor should not be tank mixed with oil.
- 2<sup>nd</sup> cover: Epsom salts, Solubor and Zn EDTA are compatible in a tank mix. However this combination PLUS pesticides may want to be avoided to reduce the amount of material in the tank. If your foliar analysis indicated a need for all three, move the Zn EDTA and/or Solubor to the 3<sup>rd</sup> cover spray or in a separate spray.
- Calcium chloride plus Epsom salts may, under some conditions, react to form a calcium sulfate precipitate.

#### Read the label BEFORE mixing for any known compatibility issues.

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