



**Complestal**<sup>®</sup>



**C O M P L E T E S**

your successful crop management







**Foliar Nutrition Strategies  
Blueberries**

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# Foliar Strategies for Blueberries

Application		Product	L/ha
Bud Break (late March)		<b>Macro M</b> After breaking dormancy, Complestal Triple delivers a balanced N-P-K feeding and supplies necessary micronutrients for reproductive organ development.	3.5
Bloom		Pre-Bloom: <b>Boron</b> Post-Bloom: <b>Microplant Mg + Boron</b> Fruit set requires excessive mineral nutrient; <b>Microplant Mg</b> supplies added N and K when plants are able to handle higher concentrations.	0.75 2.34 + 0.75
Early Green Fruit – 6 weeks after previous application		<b>Microplant Mg + Complestal Calcium</b> <b>Microplant Mg</b> continues to supply higher concentrations of N and K, as well as needed micronutrients, for developing fruit.	2.34 + 2.34
25% Blue – 6 weeks after previous application		<b>Complestal Calcium</b> Improves fruit firmness.	2.34
Fruit Bud Set – 6 weeks after previous application		<b>Macro M</b> Post-harvest, flower buds for next year's crop develop; photosynthates are being stored for the coming year as well.	3.5
Early Fall Color (& Fall Color) – 4 weeks after previous application		<b>Macro M</b> As foliage begins to color, nutrients are being "mined" and translocated into the root system for storage to supply energy when buds swell next spring.	3.5

Always follow label requirements for rates, timing of application, adjuvant requirements and mixing order of all tank mix combinations. Listed spray programs are recommendations only. Consult your local extension specialist or certified crop advisor about your specific foliar needs.

Product	Rate/ha	Primary			Secondary			Micronutrients					
		N	P <sub>2</sub> O <sub>5</sub>	K <sub>2</sub> O	S	Ca	Mg	B	Cu	Fe	Mn	Mo	Zn
Macro M	3.5 L	10.0%	10.0%	10.0%	1.32%			0.02%	0.05%	0.10%	2.00%	0.001%	0.05%
Boron	0.75 L	8.0%	1.00%		0.2%			7.0%	0.05%	0.10%	0.05%	0.001%	0.05%
Microplant Mg	2.34 L	5.0%	5.0%	10.0%	5.2%		1.80%	0.30%	0.50%	1.00%	1.50%	0.01%	1.00%
Calcium	2.34 L	10.0%				10.70%	1.20%	0.05%	0.04%	0.05%	0.10%	0.001%	0.20%

## Deficiency Symptoms



Nitrogen Deficiency



Iron Deficiency

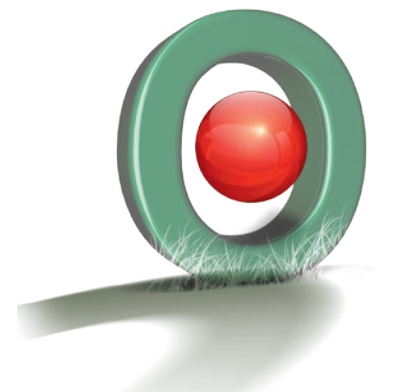


Copper Deficiency  
(causing Stem Blight)



Mn Toxicity

- Delaying leaf drop until mid-November assists in movement of carbohydrate to the root system for healthier plants in the spring.
- 1 and 2-year-old bushes extend vegetative growth longer than mature bushes (by virtue of not expending resources on reproductive structures).
- Nitrogen is the most limiting nutrient for growth in blueberries. Mature bushes should add 6 to 12 inches of new growth per growing season; prune additional growth. Some varieties of blueberries are sensitive to overfertilization (especially w/nitrate nitrogen).



## Benefits of Foliar Fertilization

Foliar nutrition is the ultimate tool for managing plant stress, delivering targeted nutrients during peak demand and efficiently addressing deficiencies in the plant at the right time.

- Improve plant health
- Direct delivery of nutrients
- Address nutrient deficiencies
- Offset poor soil uptake
- Deliver nutrients to specific areas of demand within the plant
- Offset poor nutrient distribution within the plant
- Promote root absorption
- Stimulate photosynthesis

### ANTI-EVAPORANTS

- ▶ **Benefit:** Long-lasting spray film



Droplets reach the leaf surface even under hot conditions and nutrients remain in a dissolved form.

### BUFFERING AGENTS

- ▶ **Benefit:** Improves stability of the spray solution and provides optimum nutrient availability when tank-mixing with many common crop protection products.

### MISCIBILITY

- ▶ **Benefit:** Application and handling efficiencies result from tank mixing Complestal formulations with many common crop protection products.

### STICKERS

- ▶ **Benefit:** Reduced loss due to rain



Stickers increase nutrient adhesion on the leaf surface.

### SURFACTANTS

- ▶ **Benefit:** Maximized uptake area



Droplets spread evenly on the leaf. The covered surface is maximized.

### HUMECTANTS

- ▶ **Benefit:** More efficient foliar fertilization



Ambient water from the air is attracted and re-moisturizes the leaf surface.

### STRONG CHELATING AGENTS

- ▶ **Benefit:** Ensures the water solubility required for plant uptake and utilization.

