Overview of Peak Nutrient Demand Periods

- **Pre Bloom** →
  The tree begins to utilize stored energy at higher rates to prepare for flower
- Popcorn Buds
- Flower Break
- Petal Drop
- **Fruit Set** →
  From petal drop through early fruit set large amounts of this stored energy is spent quickly
- Fruit development
- **Maximum skin thickness** →
  Maximum skin in citrus signals the end of cell division in the tree begins to focus on
- Fruit development
- Harvest
- **Post Harvest** →
  After harvest trees have spent most of their stored energy and must begin to replenish reserves and develop bud wood and for the following crop

Biological Nutrient Technologies

REGISTERED cdfa ORGANIC INPUT MATERIAL

REGISTERED MATERIAL For Use In Organic Agriculture Washington State Dept. of Agriculture

Properly Timed foliar applications of FP-LL15 increase yields of market sized fruits by providing immediately available amino acids thus providing boosts at key, high energy demanding phases of fruit development.

Covering Peak Demands

- **Pre Bloom** — 1-2 lbs PER ACRE →
  High nutrition demands are filled when trees utilize protein reserves to create needed energy for flower set. The number of flower sites has shown to increase with properly timed foliar applications.
- Popcorn Buds
- Flower Break
- Petal Drop
- **Fruit Set** — 1-2 lbs PER ACRE →
  The transition from flower break to fruit development again sees plants rely on stored proteins to fill high energy demands often created by incomplete fertilizer programs.
- Fruit development
- **Maximum skin thickness** — 2-3 lbs PER ACRE →
  This stage is also a signal to the end of cell division, a critical stage in overall yields to come. Foliar applications of readily available nitrogen sources have shown to prolong cell division, proving to be a fertilizer application that can be weighed at the scales.
- Fruit development
- Harvest
- **Post Harvest** — 2-3 lbs PER ACRE →
  Studies have shown up to 20% of a seasons spent nitrogen can be replaced in a single post harvest foliar N application. These applications are critical to develop bud wood and bud sites, a determining factor in the following seasons harvest. It is also vital to replenish protein reserves to ensure a healthy leaf set the following season.