

THE CHALLENGE:

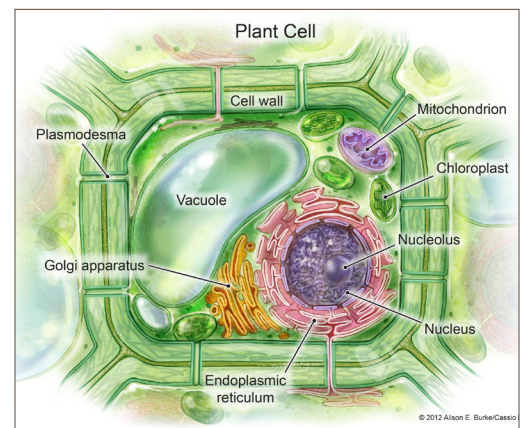
Obtaining optimal crop quality is vital because it impacts crop value, marketability, and net income.

THE SCIENCE:

There are many variables that affect crop quality. This Redox solution will focus on fruit firmness and fruit size.

The plant metabolic processes that occur during the stage of cell development define fruit firmness potential—a process that occurs very early in the growth cycle. The nutritional status of the plant during the few weeks following fruit set is critical. Calcium becomes a key structural component of strong cell walls. Strong cell walls lead to fruit that harvests firmer with better shelf life. Silicon is another key nutrient that is proving beneficial for enhancing cell wall strength.

Fruit size potential is also defined during the early stages of cell development. Increased cell quantity in the fruit provides the potential to size those cells later in the season. Proper nitrogen metabolism in the plant can correlate directly to improved fruit size. Later in the crop cycle, during periods of rapid fruit sizing, it is very important to minimize plant, water, and heat stress.



THE REDOX SOLUTION:

FRUIT FIRMNESS

For optimal firmness, target improvement of calcium and silicon plant assimilation during periods of cell wall development. Redox has two tools that may be beneficial for improving fruit firmness:

MAINSTAY CALCIUM SI

A reacted plant nutrient high in calcium. Plants efficiently absorb Mainstay Calcium Si due to the proprietary microencapsulation technology. Use Mainstay Calcium Si where increased plant available calcium is required. Apply multiple applications of 0.25 to 1 gallons per acre as a foliar spray during periods of critical calcium requirements or as required.

MAINSTAY CALCIUM

Plants efficiently absorb Mainstay Calcium due to the proprietary microencapsulation technology. Use Mainstay Calcium where increased plant available calcium is required. Apply multiple applications of 0.25 to 3 gallons per acre to the soil during periods of critical calcium requirements or as required.

FRUIT SIZE

In order to achieve fruit size potential, optimize nitrogen metabolism during cell development. When fruit is rapidly sizing, minimize plant stress for optimum allocation of plant resources to the fruit. Redox has two tools that may be beneficial for improving fruit size:

RX SUPREME

A reacted plant nutrient product containing key plant nutrients as well as key soluble carbon compounds derived from a proprietary fermentation process. Rx Supreme improves nitrogen metabolism due to key soluble carbon compounds. Use of Rx Supreme, when applied during cell development, is beneficial for improving cell quantity for optimum fruit size potential. Apply 1 to 4 pounds per acre via foliar application every 1 - 2 weeks or as required during cell development.

DIKAP

A reacted plant nutrient product high in potassium and phosphorus. diKaP is unique in its ability to promote the production of phenolic compounds. Phenolic compounds are specific types of antioxidants. Use of diKaP is particularly beneficial under conditions of heat and water stress, and may prove highly beneficial for optimum fruit size. Apply 1 to 4 pounds per acre via foliar or fertigation application every 1 - 4 weeks or as required during periods of rapid fruit sizing.