

CellMate® Foliar Improves Calcium Uptake & Quality in Apples

3 Year University Study Michigan State University (MSU) 2010

RESEARCH SUMMARY

A three-year study was conducted at the Michigan State University (MSU) Clarksville Horticulture Experiment Station to evaluate the ability of **CellMate® Foliar** to improve fruit quality, increase fruit Calcium levels and reduce harvest and post-harvest disorders, such as Bitterpit and Internal Browning Breakdown. **Varieties tested: Honeycrisp, Red Delicious, Northern Spy, and Jonagold.**

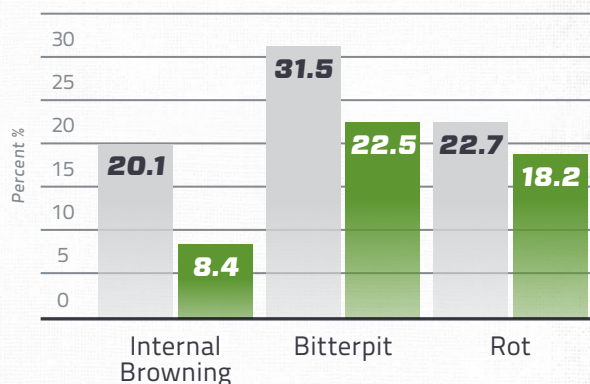
TREATMENT PROGRAM

CellMate Foliar was applied at **2 qt/acre** in 30-50 gallons of water per acre. Applications were started at petal fall and continued until 2-3 weeks before harvest. 6-8 applications of **CellMate Foliar** were made per year. (During 2008 and 2009 **Calron® Soil** at **2 gal/acre** was applied to the soil in the early spring, but **Calron Soil** was not applied in 2010.)

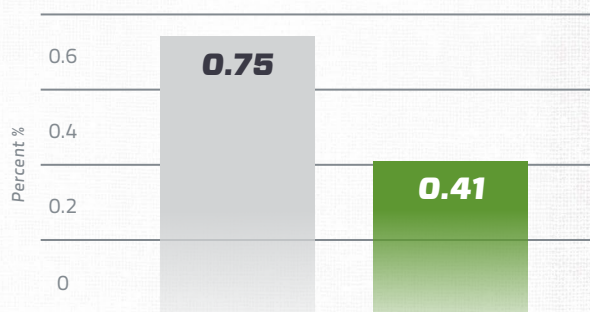
RESULTS

- >> Reduced Fruit Bitterpit Typically by 33%
- >> Reduced Internal Browning and Rot Often by 30-50%
- >> Positive Improvement on Fruit Disorders and Fruit Quality
- >> Increased the Calcium Content of Fruit by 11% on Average

CellMate Foliar ON APPLES 3 Year Summary 2008-10



APPLE SCALD



APPLE CALCIUM

