

# Mainstay Si

GROWING BEYOND WITH REDOX

## GUARANTEED ANALYSIS

Calcium (Ca)..... 10%  
Also contains non-plant food ingredient  
Silicon Dioxide (SiO<sub>2</sub>) ..... 22%

## HOW DOES IT WORK?

**Mainstay Si** strengthens cell walls and reduces environmental oxidative stress.

## WHAT IS MAINSTAY SI?

**Mainstay Si** is a reacted plant nutrient high in calcium and silicon.

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## KEY PRODUCT BENEFITS

1. Highly plant-available calcium.
2. Highly plant-available silicon.

## MOST EFFECTIVE USE

### SOIL APPLICATIONS

Apply through all controlled irrigation systems at a rate of 0.25 to 5 gallons per acre per application. Apply directly to the soil and water in at a rate of 0.25 to 5 gallons per acre.

### FOLIAR APPLICATIONS

Apply at a rate of 0.125 to 1 gallon per acre. Rate is dependent on crop requirements and water volume. Frequency and quantity of applications depend upon specific crop requirements.

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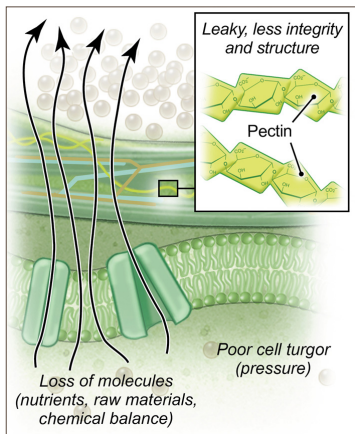
## RELEVANT TERMS

**CALCIUM NUTRITION** - Critical to proper cell wall strength.

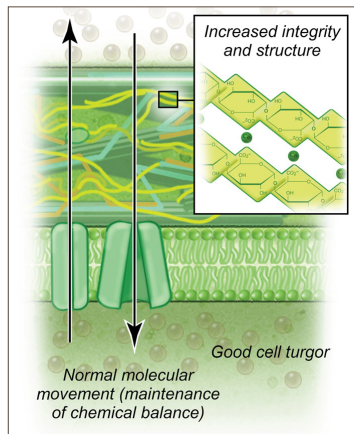
**ENVIRONMENTAL OXIDATIVE STRESS** - The accumulation of oxygen-free radicals in plants. Excess oxygen-free radicals cause premature cell degradation.

**SILICON NUTRITION** - Research indicates that increased silicon levels in plants can improve cell wall integrity and reduce oxidative stress.

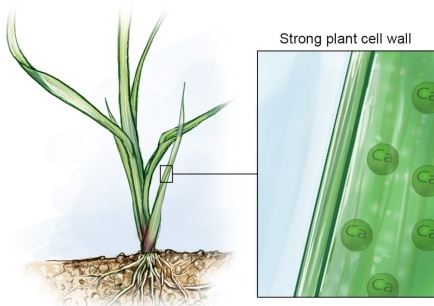
### WEAK CELL STRUCTURE: PLANT IS SUSCEPTIBLE TO STRESS



### STRONG CELL STRUCTURE: PLANT IS MORE RESISTANT TO STRESS



### CELLS ARE THE BASIC STRUCTURAL, FUNCTIONAL & BIOLOGICAL UNIT IN PLANTS.



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