



Proven Efficiency

Maximize budget dollars with Grigg Brothers® Quality, Performance, Compatibility, and Proven Efficiency.

Only Grigg Brothers® has documented foliar fertilizer uptake at four different universities and on multiple turfgrass species.

Not all foliar fertilizers are created equal. The Proven Foliar™ product line from Grigg Brothers® are manufactured and formulated based on years of plant nutrition research and development, contain the highest quality ingredients, and have documented proven results.

Turfgrass managers worldwide are taking advantage of highly efficient Grigg Brothers® Proven Foliar™ fertilizers which utilize proprietary technologies designed to enhance nutrient uptake and assimilation, and improve plant health.



How do Chelating Agents Affect Uptake?

Correctly chelated mineral nutrients using organic agents result in a more neutral charge, facilitating maximum absorption. Synthetic chelating agents (e.g. EDTA) are not as effective at facilitating foliar applied nutrients.

How does Proven Foliar™ fertilizer work?

Nutrients enter micropores in the leaf surface called ectodesmata clustered near the stomata.

Factors Affecting Nutrient Uptake

- Ion Charge (positive, negative)
- Nutrient Size (diameter)
- Nutrient Concentration
- Temperature
- Plant metabolism



Research Objectives

- Determine if *formulation* affects nutrient uptake
- Determine the *percent intake* of each nutrient (primary and secondary macro plus micronutrients) applied to turf
- Determine how *quickly* the nutrients were absorbed
- Determine if nutrient intake differed between *turfgrass species*

