



Research Driven,  
Proven Results®

## NUTRITION PROGRAM

# SPORTS TURF MANAGEMENT

GRIGG sports turf nutrition programs are designed to increase turf vigor, overall quality, wear tolerance, and provide quick establishment. They include the use of GRIGG Proven Foliar® nutrients, soil specialty fertilizers and GRIGG GreenSpec® granular nutrients, which are formulated based on many years of ongoing plant nutrition research.

### Research Driven, Proven Results

Turfgrass managers around the world are taking advantage of highly efficient GRIGG Proven Foliar nutrients. Produced with the highest quality ingredients, these proprietary formulations provide unparalleled nutrient uptake and assimilation. GRIGG offers science-based solutions and focuses on research and education. They remain dedicated to validating products and programs through university research and proven field results.



GRIGG products are used and trusted by some of the most notable sports stadiums in the world - including the Rose Bowl Stadium®.

### GRIGG Proven Foliar Nutrient Efficiency Research

Within fifteen minutes of GRIGG Proven Foliar nutrient application to a cool-season turfgrass, more than 60% of applied primary and minor nutrients were absorbed by leaf tissue. Minimal, if any, nutrient was found in the thatch or root-zone, indicating maximize efficiency and limited loss to the environment. Furthermore, nutrient intake occurred for the next four hours and increased over time. (See Figure 1)

Proven Foliar® Fertilizer Uptake

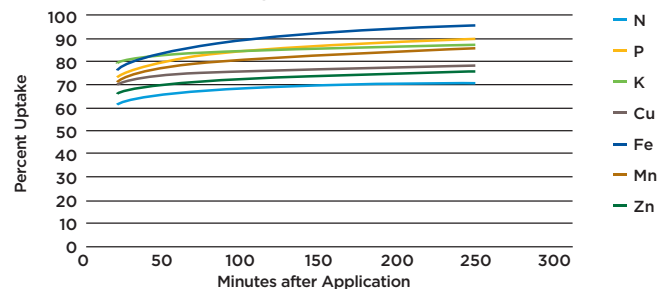


FIGURE 1. Percent (%) uptake (absorption) of primary and minor nutrients applied to creeping bentgrass (2008) R. Gaussoin, University of Nebraska

GRIGG GreenSpec granular nutrients, formulated with a hybrid nitrogen (N) source, provided the greatest total N recovery when applied to Tifway Bermudagrass and compared to other slow release sources. GRIGG GreenSpec contains a protein based slow release N source including soy and food grade protein. These organic N sources appear to be most efficiently consumed by soil microorganisms, mineralizing the N into an inorganic form and making it available for turfgrass uptake and use. (See Figure 2)

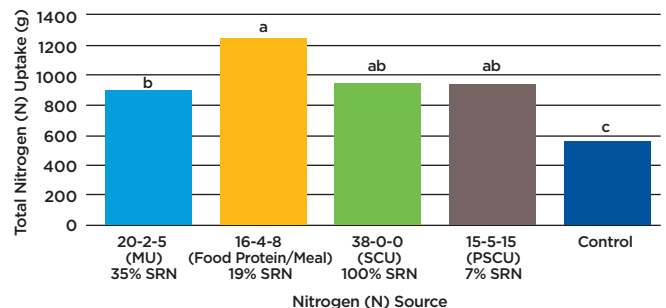


FIGURE 2. Evaluation and comparison of slow release nitrogen (N) sources for total N recovery from Tifway Bermudagrass (2009) J.A. Sartain, UF \*Means followed by different letter here significantly different (P=0.05). MU- Methylene Urea; SCU-Sulfer Coated Urea; PSCU-Polymer Sulfer Coated Urea

**Spring foliar starter: every 7-10 days**

GRIGG Proven Foliar	fl oz/1,000 ft <sup>2</sup>	L/Ha
GRIGG Nutra Green	4-6	15-20
GRIGG P-K Plus	6	20
GRIGG Ultraplex	4-6	15-20

**Cool season maintenance: every 7-10 days**

GRIGG Proven Foliar	fl oz/1,000 ft <sup>2</sup>	L/Ha
GRIGG Gary's Green Ultra	6-9	20-30
GRIGG P-K Plus	6	20
GRIGG Tuff Turf	4-6	15-20
GRIGG Sili-Kal B	4-6	15-20

**Warm season maintenance: every 7-10 days**

GRIGG Proven Foliar	fl oz/1,000 ft <sup>2</sup>	L/Ha
GRIGG Suprema	6-12	20-40
GRIGG Ultraplex	3-6	10-20
GRIGG P-K Plus	6	20
GRIGG Tuff Turf	3-6	10-20
GRIGG Kelplex	1-3	3-10

**Cool and warm soil conditioning: every 7-10 days**

GRIGG Proven Foliar	fl oz/1,000 ft <sup>2</sup>	L/Ha
GRIGG Rhizonify	12	40
GRIGG Bi Blend	3	10

*Lightly water in or apply at 132-176 gal/acre*

Any program can be adjusted to your specific needs, and your micro climate.

All foliar rates below are expressed as fluid ounces per 1,000 sq ft with liters per hectare [L/Ha] equivalents unless otherwise noted.

All GRIGG GreenSpec granular nutrient rates are expressed in lbs per 1,000 sq ft with grams per meter squared [g/m<sup>2</sup>].

**GRIGG Proven Foliar Nutrients**

GRIGG offers a variety of products and programs for use on both cool and warm-season turfgrass. Overall, the use of Proven Foliar fertilizers will maximize vigor, including turfgrass maintained on sand-based root-zones and under high traffic. Specifically, programs containing foliar N, potassium (K), and phosphite (H<sub>2</sub>PO<sub>3</sub><sup>-</sup>) allow turfgrass plants to maintain resiliency and increase wear tolerance.

Turf managers rely on the proven performance of GRIGG P-K Plus® to increase turf vigor and performance under pest pressure and environmental stress. Phosphite upregulates antioxidant and phytoalexin product, thus improving environmental stress tolerance.

**GRIGG GreenSpec Granular Nutrients**

GRIGG GreenSpec granular nutrient applications provide a superior granular source with impeccable homogeneous physical formulations and pure ingredients. When applied at the correct time and rate, GRIGG Seven Iron™ increases the rate of turfgrass establishment and maximizes recovery from traffic stress, pest pressure, and/or mechanical damage.



**For a distributor near you contact:  
800 300 6559 or [www.grigg.co](http://www.grigg.co)**

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