



Research Driven,  
Proven Results™

## NUTRITION PROGRAM

# NUTRITIONAL PROGRAMS TO INCREASE ESTABLISHMENT VIGOR

GRIGG™ offers a range of unique products that can provide optimal results for golf course grow-in and establishment situations. GRIGG™ GreenSpec™ granular nutrients provide an excellent source of quickly available and slow release nitrogen (N). The homogenous granules offer a unique natural organic N source derived from protein by-products, providing increased N recovery by turfgrass being established on sand, thus improving their vigor\*. Fortified with iron (Fe), manganese (Mn), zinc (Zn) sucates and kelp, the GreenSpec line provides unparalleled turf color and quality. The products also contain 3.2% humic acid derived from leonardite for enhanced moisture retention and CEC, soil building, and thus accelerated growin.

GRIGG™ Seven Iron™ 7-7-7 granular has demonstrated outstanding results in research trials and in the field for grow-in programs across the U.S. This bridged (hybrid) organic product provides stability of available nutrients in sand root zones while promoting vigorous establishment and soil health. The product also contains 7% iron, 7% calcium and 7% sulfur. Endurance™ 8-4-16 is another excellent growin material that will deliver metered nitrogen during establishment and balance available mineral nutrition in the developing root zone and rhizosphere.

GRIGG™ Proven Foliar® nutrients complement the pre-plant granular products exceptionally well, and is a superior method of promoting a rapid grow-in without producing excess biomass, commonly referred to as a grow-in thatch layer. Avoiding an organic matter grow-in layer is essential with management of newer creeping bentgrasses and hybrid Bermuagrasses, especially at sites with expectations for championship level putting greens and fairways. The chelating and complexing agents in the GRIGG Proven Foliar nutrient line will also enable these products to address macro and micronutrient deficiencies common in sands with basic pH.

In 2016, a new joint-venture, BRANDT iHammer®, was formed to bring new plant helath technologies to the turf and ag markets. The proprietary formulations maximize carbohydrate production to produce a stronger, better-anchored plant capable of tolerating traffic and other stressors as plants are establishing. Research has shown that BRANDT® Upplause® Plus can improve establishment time of turfgrass compared to an equivalent amount of soluble nitrogen in the form of ammonium sulfate (AS). BRANDT Reaction® enhanced efficiency fertilizers are another product line that offers a perfect fertigation option as a soluble nutrient source with extended availability on sand based soils.

Built on years of research and proven results, these putting greens/tees and fairways grow-in recommendations will provide excellent results and build a balanced root zone.



*\* Evaluation and Comparison of Slow-Release Nitrogen (N) Sources on Tifway Bermudagrass*

# Creeping Bentgrass / Hybrid Bermudagrass

## Putting Greens / Tees

Pre-Plant <sup>§</sup> Product	Rate/1,000 ft <sup>2</sup>	Nutrient Dose/1,000 ft <sup>2</sup>
GRIGG™ Seven Iron™	40 lbs	2.8 lbs N, P, K, Ca, S, Fe 0.6 lbs Mn 0.08 lbs Zn

Grow-In Timing <sup>†</sup>	Product <sup>‡</sup>	Rate/1,000 ft <sup>2</sup>
At Early Emergence	GRIGG™ Nutra Green™	7 fl oz
	BRANDT® Upplause® Plus	3 fl oz
3 Weeks After Emergence (WAE)	GRIGG™ Seven Iron™	8 lbs
	GRIGG™ Gary's Green® Ultra	12 fl oz
	GRIGG™ Nutra Green	8 fl oz
4 WAE	BRANDT® Upplause® Plus	3 fl oz
	GRIGG™ Seven Iron™	8 lbs
5 WAE	GRIGG™ Gary's Green® Ultra	12 fl oz
	GRIGG™ Nutra Green™	8 fl oz
	BRANDT® Upplause® Plus	3 fl oz
6 WAE	GRIGG™ Seven Iron™	8 lbs
	GRIGG™ Gary's Green® Ultra	12 fl oz
7 WAE	GRIGG™ Nutra Green™	8 fl oz
	BRANDT® Upplause® Plus	3 fl oz
8 WAE	GRIGG™ Seven Iron™	10 lbs
	GRIGG™ Endurance	10 lbs
9 WAE	GRIGG™ Gary's Green® Ultra	12 fl oz
	BRANDT® Upplause® Plus	3 fl oz
10-12 WAE	GRIGG™ Seven Iron™	6.25 lbs



For a distributor near you contact:  
GRIGG: 1 888 246 8873 or [www.grigg.co](http://www.grigg.co)

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Legal text if needed.

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## Fairways (Sand Capped)

Pre-Plant <sup>§</sup> Product	Rate/1,000 ft <sup>2</sup>	Nutrient Dose/1,000 ft <sup>2</sup>
GRIGG™ Seven Iron™	30 lbs	2.1 lbs N, P, K, Ca, S, Fe 0.45 lbs Mn 0.06 lbs Zn

## Nutrient Injection Option (Fertigation) At Early Emergence until Uniform Cover (every 7 days):

Product	Rate/Acre
Urea (UN32) (32-0-0)	3 gal
BRANDT® Reaction® P (2-12-0)	1 gal
BRANDT® Reaction® MKS (0-0-4; 2.1 Mg, 4.2 S)	2 gal

## With Adequate Tuffgrass Cover and Dry Conditions, Begin Topical Fertilizer Applications:

Grow-In Timing	Product <sup>‡</sup>	Rate/1,000 ft <sup>2</sup>
1 Week After Uniform Cover (WAC)	GRIGG™ Seven Iron™	10 lbs
	GRIGG™ Burley Green®	8 fl oz
2 WAC	GRIGG™ Amino Iron®	6 fl oz
	BRANDT® Upplause® Plus	3 fl oz
4 WAC	GRIGG™ Seven Iron™	10 lbs
	GRIGG™ Burley Green®	8 fl oz
5 WAC	GRIGG™ Amino Iron®	6 fl oz
	GRIGG™ Endurance™	10 lbs
6 WAC	GRIGG™ Burley Green®	8 fl oz
	GRIGG™ Amino Iron®	6 fl oz
8 WAC	BRANDT® Upplause® Plus	3 fl oz
	GRIGG™ Seven Iron™	6.25 lbs
10 WAC	GRIGG™ Seven Iron™	6.25 lbs

<sup>§</sup> Incorporate this product into the top 2-4 inches of the root zone just prior to seeding. Seed the green and roll to provide smoothness and good seed-soil contact.

<sup>†</sup> Apply foliar fertilizers with a spray hawk or other walking sprayer if possible.

<sup>‡</sup> Water in all GreenSpec granular products with a minimum of 0.125 inches.