

Research Driven, Proven Results®



# SPECIALTY FERTILIZERS FOR GOLF AND SPORTS TURF

## RESEARCH DRIVEN, PROVEN RESULTS

For over 25 years, GRIGG has been an innovator in turfgrass nutrition, product development and research.

The high quality, science-based products are supported by years of university and independent field testing. GRIGG products are used by many of the world's most prestigious golf courses and sports fields, including the Rose Bowl Stadium®.



BRANDT® is the official fertilizer partner of the Rose Bowl Stadium

#### **Our History**

GRIGG was founded in 1995 by Mark and Gary Grigg, who were early pioneers in turf nutrition product innovation. In 2014, GRIGG was purchased by BRANDT – a leading global manufacturer of nutrition, adjuvants and sustainable solutions for the ag, turf and ornamental, and lawn and garden markets. The company currently sells its turf and ornamental products under the BRANDT and GRIGG brands.

BRANDT operates seven state-of-the art manufacturing facilities and a 500 acre research farm. The Discovery and Innovation team is the lifeblood of the company – dedicated to developing new specialty products that help customers achieve better results. BRANDT currently serves customers in over 70 countries.

For more info, visit brandt.co and grigg.co



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## **PROVEN FOLIAR NUTRIENTS**

GRIGG Proven Foliar nutrients are the turfgrass industry's premier line of foliar fertilizers. They supply highly efficient, reliable nutrition and have been rigorously tested in independent and university trials.

- Easy to use, highly compatible formulations
- Nutrients are in the proper ionic form for optimal plant use
- Most formulations contain amino acid complexed nutrients, which are highly efficient and mobile

#### **Benefits of Foliar Feeding**

Foliar feeding is one of the most efficient ways to supply nutrition to turfgrass. Depositing nutrients on the leaf surface allows faster nutrient absorption and uptake - allowing quick correction of nutrient deficiencies and better results. Supplying turfgrass with the right nutrients in the right form may also impact plant response to stress. High efficiency nutrition products may also reduce the potential for nutrient leaching.

### **ADVANTAGE**

5-0-1

GRIGG Advantage is a liquid foliar fertilizer that builds vibrant turfgrass for golf courses, sports turf, and ornamentals. This formulation adds vigor to all plants by supplying the right amount of macro and micronutrients needed for optimal growth.



#### **Key Advantages**

- Nutrients are stable, readily available for plant uptake
- Majors and micronutrients build plant proteins, which improves plant metabolism, strength and vigor
- Formulation stays suspended in tank mix for even, no fuss applications
- Builds strong root systems and strong standing shoots
- Low application rate
- Does not contain phosphates
- Compatible with most fertilizers, pesticides and adjuvants

#### **Application and Use**

GRIGG Advantage may be used on all turf including greens, tees, fairways, sports turf, home lawns, and other grassy areas. Apply 3-6 fl oz per 1000 sq ft in sufficient water for thorough coverage (typically 2.5 gallons). Apply before stress cycles begin and repeat at least twice a month. Allow at least 6 hours before/after irrigation event for maximum benefits.

Advantage may be applied with many other fertilizers, pesticides and adjuvants. For optimal results, apply every 2 weeks during the growing season. Always perform jar test before use.

Shake well before dispensing.

#### **Guaranteed Analysis**

Total Nitrogen (N)
1.00% Nitrate nitrogen
4.00% Urea nitrogen
Soluble Potash (K <sub>2</sub> O)1.00%
Boron (B)
Manganese (Mn)
0.75% Water soluble manganese
Molybdenum (Mo) 0.001%
Zinc (Zn)0.75%
0.75% Water soluble zinc

Derived from potassium nitrate, urea, sodium borate, manganese EDTA, sodium molybdate and zinc EDTA.



## **A-O-K**

2-0-24

GRIGG A-O-K is a 24% soluble potassium that provides an economical source of K for putting greens. It may be used in-season and/or applied to turfgrass during the hardening off process before winter.

#### **Key Advantages**

- Contains soluble nutrients for efficient uptake and use
- Improves turfgrass strength and vigor
- Excellent on soil where potassium availability is an issue - typically loam soils and sand-based root zones
- Potassium regulates primary physiological processes that impact turf response to stress and supports cellular processes that impact photosynthesis, water regulation, respiration and protein production

#### **Application and Use**

Cool Season Grasses: Apply 3-6 fl oz per 1000 sq ft or 1-2 gal per acre [10-20 L per hectare] as needed every 14 days.

Warm Season Grasses: Apply 2-6 fl oz per 1000 sq ft or 0.75-2 gal per acre [7-20 L per hectare] as needed every 14 days.

Make frequent applications at lower rates, or apply higher rates at times of greater plant demand. Optimum rate of application will vary depending on treatment interval, soil properties (such as pH, organic matter content, texture), weather conditions, time of year, plant species and its nutrient requirements. For best results, follow soil/tissue test recommendation.

#### **Guaranteed Analysis**

Total Nitrogen (N)2.09	6
2.0% Urea nitrogen	
Soluble Potash (K <sub>2</sub> O)	6

Derived from urea and potassium hydroxide.



## **CARBOPLEX**

#### 6-4-4

GRIGG Carboplex contains three sources of nitrogen, phosphate, potassium, amino acid complexed micronutrients and sea plant extract (*Ascophyllum nodosum*). It helps boost turf strength, vigor and hardiness – making it a great option for winter turfgrass preparation.

#### **Key Advantages**

- Contains soluble nutrients for efficient uptake and use
- Nitrogen promotes consistent turfgrass shoot growth
- Phosphorus plays a role in plant metabolic processes that transfer energy throughout the plant
- Potassium regulates primary physiological processes that impact turf response to stress and supports cellular processes that impact photosynthesis, water regulation, respiration and protein production
- Iron plays a key role in chlorophyll production, which improves turf color

#### **Application and Use**

Foliar Applications: Apply as needed every 7-14 days.

*Tees, Greens:* 6-12 fl oz per 1,000 sq ft or 2-4 gal per acre [20-40 L per hectare].

*Fairways, Sports Field:* 9-12 fl oz per 1,000 sq ft or 3-4 gal per acre [30-40 L per hectare].

Soil Applications: Apply as needed every 7-21 days.

*Tees, Greens:* 9-12 fl oz per 1,000 sq ft or 3-4 gal per acre [30-40 L per hectare].

*Fairways, Sports Fields:* 12-15 fl oz per 1,000 sq ft or 4-5 gal per acre [40-50 L per hectare].

Make frequent applications at lower rates, or apply higher rates for greater plant demand. Optimum rate of application will vary depending on treatment interval, soil properties (such as pH, organic matter content, texture), weather conditions, time of year, plant species and its nutrient requirements. For best results, follow soil/tissue test recommendation.

#### **Guaranteed Analysis**

Total Nitrogen (N) 6.00%
0.70% Ammoniacal nitrogen
1.10% Nitrate nitrogen
4.20% Urea nitrogen
Available Phosphate (P <sub>2</sub> O <sub>5</sub> ) 4.00%
Soluble Potash (K <sub>2</sub> O)
Iron (Fe) 0.20%
0.20% Water soluble iron
Manganese (Mn)
0.05% Water soluble manganese
Zinc (Zn)
0.05% Water soluble zinc

Derived from monoammonium phosphate, potassium nitrate, urea, iron amino acid complex, manganese amino acid complex, zinc amino acid complex, potassium hydroxide and kelp (*Ascophyllum nodosum*).



This product is not intended for use on food crop sites. This product is not for sale in CA.

## **FAIRPHYTE**

1-0-25

GRIGG Fairphyte is a 25% soluble potassium derived from potassium phosphite. It is designed for golf course fairways and sports turf to provide quality nutrition at a great value.

#### **Key Advantages**

- Contains soluble nutrients for efficient uptake and use
- Improves turfgrass strength and vigor
- Potassium regulates primary physiological processes that impact turf response to stress and supports cellular processes that impact photosynthesis, water regulation, respiration and protein production

#### **Application and Use**

Cool or Warm Season Grasses: Apply 3-4 fl oz per 1,000 sq ft or 1-1.25 gal per acre [10-13 L per hectare] as needed every 14 days

Make frequent applications at lower rates, or apply higher rates at times of greater plant demand. Optimum rate of application will vary depending on treatment interval, soil properties (such as pH, organic matter content, texture), weather conditions, time of year, plant species and its nutrient requirements. For best results, follow soil/tissue test recommendation.

#### **Guaranteed Analysis**

Total Nitrogen	 	 1.0%
1.0% Urea nitrogen		
Soluble Potash (K <sub>2</sub> O)	 	 25.0%

Derived from urea and potassium phosphite.



 $^*\mbox{This}$  product is sold as GRIGG Fairphyte 1-27\*-25 in California. Visit grigg.co to view the complete label.

## **GARY'S GREEN**

18-3-4

GRIGG Gary's Green is the flagship of GRIGG's Proven Foliar Nutrient line – offering the ultimate in quality, performance and compatibility. It contains three sources of nitrogen, potassium, phosphorus and a micronutrient package. It improves turf color response, density and vigor. It is widely used as a primary source of N for effective 'spoon feeding' in turf nutrition programs.

#### **Key Advantages**

- Contains soluble nutrients for efficient uptake and use
- Proprietary formulation provides fast nitrogen uptake;
   N promotes consistent turfgrass shoot growth
- Phosphorus plays a role in plant metabolic processes that transfer energy throughout the plant
- Potassium regulates primary physiological processes that impact turf response to stress and supports cellular processes that impact photosynthesis, water regulation, respiration and protein production
- Recommended for golf and sports turf

#### **Application and Use**

**Cool Season Grasses:** Apply 6-9 fl oz per 1,000 sq ft or 2-3 gal per acre [20-30 L per hectare] as needed every 7-14 days.

Warm Season Grasses: Apply 9-12 fl oz per 1,000 sq ft or 3-4 gal per acre [30-40 L per hectare] as needed every 7-14 days.

Make frequent applications at lower rates, or apply higher rates at times of greater plant demand. Optimum rate of application will vary depending on treatment interval, soil properties (such as pH, organic matter content, texture), weather conditions, time of year, plant species and its nutrient requirements. For best results, follow soil/tissue test recommendation.

#### **Guaranteed Analysis**

Total Nitrogen (N)
2.00% Ammoniacal nitrogen
1.50% Nitrate nitrogen
14.50% Urea nitrogen
Available Phosphate (P <sub>2</sub> O <sub>5</sub> ) 3.00%
Soluble Potash (K <sub>2</sub> O)
Magnesium (Mg)
0.50% Water soluble magnesium
Copper (Cu)
0.12% Water soluble copper
Iron (Fe)
1.00% Water soluble iron
Manganese (Mn)
0.10% Water soluble manganese
Zinc (Zn)0.10%
0.10% Water soluble zinc

Derived from urea ammonium nitrate, monoammonium phosphate, urea, potassium citrate, magnesium amino acid complex, copper amino acid complex, iron amino acid complex, manganese amino acid complex and zinc amino acid complex.



### **GARY'S GREEN ULTRA**

#### 14-2-3

This formulation combines two best-selling formulations: GRIGG Gary's Green and GRIGG Ultraplex. It contains three sources of nitrogen, potassium, phosphorus and a micronutrient package. It Improves turf color, density and vigor. It is an important component of most GRIGG foliar nutrition programs.

Also available in a phosphate free version.

#### **Key Advantages**

- Contains soluble nutrients for efficient uptake and use
- Proprietary formulation provides fast nitrogen uptake;
   N promotes consistent turfgrass shoot growth
- Phosphorus plays a role in plant metabolic processes that transfer energy throughout the plant
- Potassium regulates primary physiological processes that impact turf response to stress and supports cellular processes that impact photosynthesis, water regulation, respiration and protein production

#### **Application and Use**

**Cool Season Grasses:** Apply 6-12 fl oz per 1,000 sq ft or 2-4 gal per acre [20-40 L per hectare] as needed every 7-14 days.

Warm Season Grasses: Apply 9-15 fl oz per 1,000 sq ft or 3-5 gal per acre [30-50 L per hectare] as needed every 7-14 days.

Make frequent applications at lower rates, or apply higher rates at times of greater plant demand. Optimum rate of application will vary depending on treatment interval, soil properties (such as pH, organic matter content, texture), weather conditions, time of year, plant species and its nutrient requirements. For best results, follow soil/tissue test recommendation.

This product is not intended for use on food crop sites.

<b>Guaranteed Analysis</b>
Total Nitrogen (N)
1.50% Ammoniacal nitrogen
1.25% Nitrate nitrogen
11.25% Urea nitrogen
Available Phosphate $(P_2O_5)$ 2.00%
Soluble Potash (K <sub>2</sub> O)
Magnesium (Mg) 0.50%
0.50% Water soluble magnesium
Boron (B) 0.02%
Copper (Cu)
0.12% Water soluble copper
Iron (Fe)
1.40% Water soluble iron
Manganese (Mn)
0.20% Water soluble manganese
Zinc (Zn)
0.20% Water soluble zinc

Derived from urea ammonium nitrate, monoammonium phosphate, potassium nitrate, urea, potassium citrate, magnesium amino acid complex, sodium borate, copper amino acid complex, iron amino acid complex, manganese amino acid complex, zinc amino acid complex and kelp (Ascophyllum nodosum).

#### ALSO CONTAINS NON-PLANT FOOD INGREDIENT:

0.25% Yucca schidigera



## **IRON COMBO 1-0-2**

1-0-2

GRIGG Iron Combo 1-0-2 is a multi-nutrient formulation that contains nitrogen, potassium, boron and amino acid complexed copper, iron, manganese and zinc. It is an excellent option for improving turf color and correcting micronutrient deficiencies.

#### **Key Advantages**

- Contains soluble nutrients for efficient uptake and use
- Iron plays a key role in chlorophyll production, which improves turf color
- Recommended for golf and sports turf

#### **Application and Use**

**Cool or Warm Season Grasses:** Apply 2-6 fl oz per 1000 sq ft or 0.75-2 gal per acre [7-20 L per hectare] as needed every 7-14 days.

Make frequent applications at lower rates, or apply higher rates at times of greater plant demand. Optimum rate of application will vary depending on treatment interval, soil properties (such as pH, organic matter content, texture), weather conditions, time of year, plant species and its nutrient requirements. For best results, follow soil/tissue test recommendation.

#### **Guaranteed Analysis**

Total Nitrogen (N)
1.00% Urea nitrogen
Soluble Potash (K <sub>2</sub> O)
Boron (B)
Copper (Cu)
0.13% Water soluble copper
Iron (Fe)
4.00% Water soluble iron
Manganese (Mn)
1.00% Water soluble manganese
Zinc (Zn) 0.80%
0.80% Water soluble zinc

Derived from urea, potassium citrate, sodium borate, copper amino acid complex, iron amino acid complex, manganese amino acid complex and zinc amino acid complex.



# GRIGG KAL B 8-0-4

GRIGG Kal-B is a multi-nutrient formulation that contains two sources of soluble nitrogen, potassium, 10% calcium, and boron. It improves turf strength and vigor. It is also an excellent option for turf in sandbased root zones, which tend to be low in available calcium.

#### **Key Advantages**

- Contains soluble nutrients for efficient uptake and use
- Calcium is important for cell wall strength
- Potassium regulates primary physical processes that impact turf response to stress and supports cellular processes that impact photosynthesis, water regulation, respiration and protein production

#### **Application and Use**

**Cool or Warm Season Grasses:** Apply 3-6 fl oz per 1,000 sq ft or 1-2 gal per acre [10-20 L per hectare] as needed every 7-14 days.

Make frequent applications at lower rates, or apply higher rates at times of greater plant demand. Optimum rate of application will vary depending on treatment interval, soil properties (such as pH, organic matter content, texture), weather conditions, time of year, plant species and its nutrient requirements. For best results, follow soil/tissue test recommendation.

#### **Guaranteed Analysis**

Total Nitrogen (N) 8.00%
7.50% Nitrate nitrogen
0.50% Urea nitrogen
Soluble Potash (K <sub>2</sub> O)
Calcium (Ca)
10.00% Water soluble calcium
Boron (B)

Derived from potassium nitrate, urea, calcium amino acid complex and sodium borate.



## GRIGG KELPLEX

1-2-2

GRIGG Kelplex is a sophisticated formulation that contains three sources of nitrogen, phosphorus, potassium, amino acid complexed iron and sea plant extract (Ascophyllum nodosum).

#### **Key Advantages**

- Contains soluble nutrients for efficient uptake and use
- Phosphorus plays a role in plant metabolic processes that transfer energy throughout the plant
- Potassium regulates primary physiological processes that impact turf response to stress and supports cellular processes that impact photosynthesis, water regulation, respiration and protein production

#### **Application and Use**

**Foliar Application:** Apply 1-3 fl oz per 1,000 sq ft or 0.25-1 gal per acre [4-10 L per hectare] as needed every 7-14 days.

Make frequent applications at lower rates, or apply higher rates at times of greater plant demand. Optimum rate of application will vary depending on treatment interval, soil properties (such as pH, organic matter content, texture), weather conditions, time of year, plant species and its nutrient requirements. For best results, follow soil/tissue test recommendation.

#### **Guaranteed Analysis**

Total Nitrogen (N)1.0%
0.4% Ammoniacal nitrogen
0.1% Nitrate nitrogen
0.5% Urea nitrogen
Available Phosphate (P <sub>2</sub> O <sub>5</sub> )
Soluble Potash (K <sub>2</sub> O)
Iron (Fe)
0.1% Water soluble iron

Derived from urea, monoammonium phosphate, potassium nitrate, iron amino acid complex and kelp (*Ascophyllum nodosum*).



### **MAGNESIUM COMPLEX**

### Foliar Complex

GRIGG Magnesium Complex contains 5% amino acid complexed magnesium. It is an excellent option for improving turf color and correcting micronutrient deficiencies.

#### **Key Advantages**

- Contains soluble nutrients for efficient uptake and use
- Magnesium is integral to molecular structure and plays a key role in chlorophyll production, which improves turf color

#### **Application and Use**

**Cool Season Grasses:** Apply 1-3 fl oz per 1,000 sq ft or 0.25-1 gal per acre [4-10 L per hectare] as needed every 7-14 days.

Warm Season Grasses: Apply 2-4 fl oz per 1,000 sq ft or 0.75-1.25 gal per acre [7-13 L per hectare] as needed every 7-14 days.

Make frequent applications at lower rates, or apply higher rates at times of greater plant demand. Optimum rate of application will vary depending on treatment interval, soil properties (such as pH, organic matter content, texture), weather conditions, time of year, plant species and its nutrient requirements. For best results, follow soil/tissue test recommendation.

#### **Guaranteed Analysis**

Derived from magnesium amino acid complex.



## **MANGANESE COMBO**

#### Foliar Complex

GRIGG Manganese Combo is an amino acid complexed multi-nutrient formulation that contains 5% manganese and lower amounts of copper, magnesium and zinc. It is an excellent option for improving turf color and correcting micronutrient deficiencies.

#### **Key Advantages**

- Contains soluble nutrients for efficient uptake and use
- Manganese plays a key role in plant enzyme functions and photosynthesis

#### **Application and Use**

**Cool or Warm Season Grasses:** Apply 1-3 fl oz per 1,000 sq ft or 0.25-1 gal per acre [4-10 L per hectare] as needed every 7-14 days.

Make frequent applications at lower rates, or apply higher rates at times of greater plant demand. Optimum rate of application will vary depending on treatment interval, soil properties (such as pH, organic matter content, texture), weather conditions, time of year, plant species and its nutrient requirements. For best results, follow soil/tissue test recommendation.

#### **Guaranteed Analysis**

Magnesium (Mg)
1.2% Water soluble magnesium
Copper (Cu)
0.4% Water soluble copper
Manganese (Mn)
5.0% Water soluble manganese
Zinc (Zn)1.0%
1.0% Water soluble zinc

Derived from magnesium amino acid complex, copper amino acid complex, manganese amino acid complex and zinc amino acid complex.



## GRIGG MEGALEX

3-0-0

GRIGG MegAleX is a liquid foliar formulation that helps build strong, green, vibrant turf for optimal course playability. It is an excellent tool for improving turf growth and appearance in both sun and low light shade areas.



#### **Key Advantages**

- Stable source of nitrogen that resists soil tie up
- Contains no phosphate and stays suspended in tank for even, no fuss applications
- Builds strong root systems and standing shoots
- Optimizes turf vibrance and vigor
- Effective in both sun and shade areas
- Compatible with most fertilizers, pesticides and adjuvants

#### **Application and Use**

GRIGG MegAleX may be used on turf and ornamentals to help promote rapid greening and robust growth.

Turf (such as athletic fields, greens, tees, and fairways): Apply only to actively growing turf. Use 2.5-3 fl oz per 1,000 sq ft every week OR 4-6 fl oz per 1,000 sq ft every other week in sufficient water for thorough coverage (typically 2.5 gallons). Initiate spraying prior to seasonal stress cycles. Apply at least twice monthly and allow at least 6 hours before/after irrigation event for maximum benefits.

Ornamental and Horticultural (such as flowering ornamentals, landscaping, evergreens, shrubs, trees, and palms, including those grown in nurseries and greenhouses): Mix 1-2.5 gallons in 100 gallons of water (2.5-6 tbsp per 1 gallon of water) and spray foliage to drip. For best results, apply on a regular schedule every other week.

#### **Guaranteed Analysis**

Derived from urea.



## GRIGG MICRO BURST

0 - 0 - 1

GRIGG Micro Burst is a multi-nutrient formulation that contains potassium, boron and amino acid complexed micronutrients. It is an excellent option for improving turf color and correcting micronutrient deficiencies.

#### **Key Advantages**

- Contains soluble nutrients for efficient uptake and use
- Iron plays a key role in chlorophyll production, which improves turf color
- Manganese plays a key role in plant enzyme functions and photosynthesis
- Recommended for golf and sports turf

#### **Application and Use**

**Cool or Warm Season Grasses:** Apply 2-4 fl oz per 1,000 sq ft or 0.75-1.25 gal per acre [7-13 L per hectare] as needed every 7-14 days.

Make frequent applications at lower rates, or apply higher rates at times of greater plant demand. Optimum rate of application will vary depending on treatment interval, soil properties (such as pH, organic matter content, texture), weather conditions, time of year, plant species and its nutrient requirements. For best results, follow soil/tissue test recommendation.

#### **Guaranteed Analysis**

Soluble Potash (K <sub>2</sub> O)
Boron (B)
Copper (Cu)
0.05% Water soluble copper
Iron (Fe)
3.40% Water soluble iron
Manganese (Mn)
2.40% Water soluble manganese
Molybdenum (Mo)
Zinc (Zn)1.00%
1.00% Water soluble zinc

Derived from potassium citrate, sodium borate, copper amino acid complex, iron amino acid complex, manganese amino acid complex, sodium molybdate and zinc amino acid complex.



### **NUTRA GREEN**

5-10-5

GRIGG Nutra Green is a multi-nutrient formulation that contains 10% phosphate, three sources of soluble nitrogen, potassium and a micronutrient package. It improves turf color and vigor. It is recommended for spring green up, overseeding and aeration.

#### **Key Advantages**

- Contains soluble nutrients for efficient uptake and use
- Excellent on soils where phosphorus availability is an issue - typically sand-based root zones and calcareous soils
- Phosphorus plays a role in plant metabolic processes that transfer energy throughout the plant
- Potassium regulates primary physiological processes that impact turf response to stress and supports cellular processes that impact photosynthesis, water regulation, respiration and protein production
- May be used on turf, ornamentals or shrubs

#### **Application and Use**

**Cool Season Grasses:** Apply 3-9 fl oz per 1,000 sq ft or 1-3 gal per acre [10-30 L per hectare] as needed every 7-14 days.

Warm Season Grasses: Apply 4-10 fl oz per 1,000 sq ft or 1.25-3.5 gal per acre [13-31.5 L per hectare] as needed every 7-14 days.

Ornamentals: *Trees, Shrubs and Flowers:* Mix 1-2 fl oz per gal of water (128x-64x dilution) and apply topically.

*Greenhouse and Landscape:* For soil applications, mix 2-4 fl oz per gal of water (64x-32x dilution) and drench into the soil.

Make frequent applications at lower rates, or apply higher rates at times of greater plant demand. Optimum rate of application will vary depending on treatment interval, soil properties (such as pH, organic matter content, texture), weather conditions, time of year, plant species and its nutrient requirements. For best results, follow soil/tissue test recommendation.

Guaranteed Analysis
Total Nitrogen (N)
2.70% Ammoniacal nitrogen
0.80% Nitrate nitrogen
1.50% Urea nitrogen
Available Phosphate (P <sub>2</sub> O <sub>5</sub> ) 10.00%
Soluble Potash (K <sub>2</sub> O)
Magnesium (Mg)
1.00% Water soluble magnesium
Boron (B)
Copper (Cu)0.10%
0.10% Water soluble copper
Iron (Fe) 1.00%
1.00% Water soluble iron
Manganese (Mn)
0.50% Water soluble manganese
Zinc (Zn) 0.10%
0.10% Water soluble zinc

Derived from monoammonium phosphate, urea ammonium nitrate, potassium citrate, magnesium amino acid complex, sodium borate, copper amino acid complex, iron amino acid complex, manganese amino acid complex and zinc amino acid complex.



## **P-K PLUS**

#### 3-5-17

GRIGG P-K PLUS is a multi-nutrient formulation that contains 17% potassium, two sources of phosphorus (phosphate and phosphite), two sources of nitrogen and a micronutrient package. It promotes turfgrass color, strength and vigor. It is an excellent option for spring green up and winter turfgrass preparation.

Also available in a phosphate free version.

#### **Key Advantages**

- Contains soluble nutrients for efficient uptake and use
- Phosphorus plays a role in plant metabolic processes that transfer energy throughout the plant
- Potassium regulates primary physiological processes that impact turf response to stress and supports cellular processes that impact photosynthesis, water regulation, respiration and protein production

#### **Application and Use**

Cool or Warm Season Grasses: Apply 6 fl oz per 1,000 sq ft or 2 gal per acre [20 L per hectare] every 14 days.

Optimum rate of application will vary depending on treatment interval, soil properties (such as pH, organic matter content, texture), weather conditions, time of year, plant species and its nutrient requirements. For best results, follow soil/tissue test recommendation.

#### **Guaranteed Analysis**

Total Nitrogen (N)
0.90% Ammoniacal nitrogen
2.10% Urea nitrogen
Available Phosphate (P <sub>2</sub> O <sub>5</sub> ) 5.00%
Soluble Potash (K <sub>2</sub> O)17.00%
Boron (B)
Cobalt (Co) 0.01%
0.01% Water soluble cobalt
Molybdenum (Mo) 0.001%

Derived from monoammonium phosphate, urea, potassium phosphite, sodium borate, cobalt sulfate and sodium molybdate.



\*This product is sold as GRIGG P-K Plus 3-20\*-17 in California. Visit grigg.co to view the complete label.

## SUPREMA

12-0-12

GRIGG Suprema is a multi-nutrient formulation that contains 12% nitrogen, 12% potassium and amino acid complexed iron, manganese and zinc. It is an excellent option for zero phosphorus fertilizer programs.

#### **Key Advantages**

- Contains soluble nutrients for efficient uptake and use
- Provides an efficient source of nitrogen and potassium at a 1:1 ratio
- Potassium regulates primary physiological processes that impact turf response to stress and supports cellular processes that impact photosynthesis, water regulation, respiration and protein production

#### **Application and Use**

**Cool Season Grasses:** Apply 4-12 fl oz per 1,000 sq ft or 1.25-4 gal per acre [13-40 L per hectare] as needed every 14 days.

Warm Season Grasses: Apply 6-15 fl oz per 1,000 sq ft or 2-5 gal per acre [20-50 L per hectare] as needed every 14 days.

Make frequent applications at lower rates, or apply higher rates at times of greater plant demand. Optimum rate of application will vary depending on treatment interval, soil properties (such as pH, organic matter content, texture), weather conditions, time of year, plant species and its nutrient requirements. For best results, follow soil/tissue test recommendation.

#### **Guaranteed Analysis**

Total Nitrogen (N)12.0%
12.0% Urea nitrogen
Soluble Potash (K <sub>2</sub> O)12.0%
Iron (Fe)
1.0% Water soluble iron
Manganese (Mn)
0.05% Water soluble manganese
Zinc (Zn)
0.05% Water soluble zinc

Derived from urea, potassium citrate, iron amino acid complex, manganese amino acid complex, zinc amino acid complex.



## **TUFF TURF**

#### 1-0-14

GRIGG Tuff Turf is a multi-nutrient formulation that contains 14% potassium, two forms of nitrogen, amino acid complexed magnesium and iron. It is an excellent tool for improving turf strength, vigor and color.

#### **Key Advantages**

- Contains soluble nutrients for efficient uptake and use
- Potassium regulates primary physiological processes that impact turf response to stress and supports cellular processes that impact photosynthesis, water regulation, respiration and protein production
- Magnesium and iron play a key role in chlorophyll production, which improves turf color
- Silicon improves plant strength

#### **Application and Use**

#### Cool or Warm Season Grasses:

Apply 3-6 fl oz per 1,000 sq ft or 1-2 gal per acre [10-20 L per hectare] as needed every 7-14 days.

Make frequent applications at lower rates, or apply higher rates at times of greater plant demand. Optimum rate of application will vary depending on treatment interval, soil properties (such as pH, organic matter content, texture), weather conditions, time of year, plant species and its nutrient requirements. For best results, follow soil/tissue test recommendation.

#### **Guaranteed Analysis**

Total Nitrogen (N)
0.75% Nitrate nitrogen
0.25% Urea nitrogen
Soluble Potash (K <sub>2</sub> O)14.0%
Magnesium (Mg)
0.5% Water soluble magnesium
Iron (Fe)
0.5% Water soluble iron

Derived from potassium nitrate, urea, potassium citrate, magnesium amino acid complex and iron amino acid complex.



## GRIGG TURFTOPIA

5-0-5

A sophisticated formulation that helps maintain turf resilience, playability and cellular hydration during environmental stress conditions. Recommended for foliar application.

Contains concentrated liquid complexed macro and micro nutrients, osmoprotectants, amino acids, an antioxidant and signaling molecules.

#### **Key Advantages**

- Nutrients feed turf and support optimum growth and development. Amino acids provide excellent nutrient uptake efficiency
- Acts as an osmoprotectant, helping maintain cellular hydration to support turf during water deficits
- Protects cell structure/membrane to support turf strength
- Helps reduce oxidative stress. Signaling molecules trigger natural plant defense mechanisms leading to improved turf performance under abiotic stress

#### **Application and Use**

Cool or Warm Season Grasses: Apply 3-6 fl oz per 1,000 sq ft or 1-2 gal per acre [10-20 L per hectare] as needed every 7-14 days.

Make frequent applications at lower rates, or apply higher rates at times of greater plant demand. Optimum rate of application will vary depending on treatment interval, soil properties (such as pH, organic matter content, texture), weather conditions, time of year, plant species and its nutrient requirements. For best results, follow soil/tissue test recommendation.

This product is not intended for use on food crop sites.

Guaranteed Analysis
Total Nitrogen (N) 5.00%
5.00% Urea nitrogen
Soluble Potash (K <sub>2</sub> O)
Manganese (Mn)
0.20% Water soluble manganese
Molybdenum (Mo) 0.003%
Zinc (Zn)
0.20% Water soluble zinc

Derived from urea, potassium citrate, potassium acetate, manganese amino acid complex, sodium molybdate and zinc amino acid complex.



### **ULTRAPLEX**

4-0-3

GRIGG Ultraplex is a proprietary and sophisticated multi-nutrient formulation that contains two sources of nitrogen, potassium, micronutrients, sea plant extract and a wetting agent. It an excellent option for enhancing turf color and vigor.

#### **Key Advantages**

- Contains soluble nutrients for efficient uptake and use
- Nitrogen promotes consistent turfgrass shoot growth
- Potassium regulates primary physiological processes that impact turf response to stress and supports cellular processes that impact photosynthesis, water regulation, respiration and protein production
- Non-ionic surfactant (Yucca schidigera) reduces water surface tension to improve foliar application wetting and absorption

#### **Application and Use**

**Cool or Warm Season Grasses:** Apply 3-6 fl oz per 1,000 sq ft or 1-2 gal per acre [10-20 L per hectare] as needed every 7-14 days.

Make frequent applications at lower rates, or apply higher rates at times of greater plant demand. Optimum rate of application will vary depending on treatment interval, soil properties (such as pH, organic matter content, texture), weather conditions, time of year, plant species and its nutrient requirements. For best results, follow soil/tissue test recommendation.

This product is not intended for use on food crop sites.

Guaranteed Analysis
Total Nitrogen (N) 4.00%
0.50% Nitrate nitrogen
3.50% Urea nitrogen
Soluble Potash (K <sub>2</sub> O)
Magnesium (Mg)
0.50% Water soluble magnesium
Boron (B) 0.05%
Copper (Cu)
0.05% Water soluble copper
Iron (Fe)
1.95% Water soluble iron
Manganese (Mn)
0.40% Water soluble manganese
Zinc (Zn)
0.40% Water soluble zinc

Derived from potassium nitrate, urea, magnesium amino acid complex, sodium borate, copper amino acid complex, iron amino acid complex, manganese amino acid complex, zinc amino acid complex and kelp (Ascophyllum nodosum).

#### ALSO CONTAINS NON-PLANT FOOD INGREDIENT:

0.8% Yucca schidigera



### **UPPLAUSE PLUS**

10-0-0

GRIGG Upplause Plus is a 10% liquid nitrogen fertilizer that is an excellent tool for establishing vibrant green, ornamentals and vigorous turfgrass.



#### **Key Advantages**

- Stable source of nitrogen that resists soil tie up
- Formulation stays suspended in tank mix for even, no fuss applications
- Builds strong root systems and standing shoots
- Optimizes turf vibrance and vigor
- Functions in both sun and shade areas
- Compatible with most fertilizers, pesticides and adjuvants

#### **Application and Use**

GRIGG Upplause Plus may be used on all turf including greens, tees, fairways, sports turf, home lawns, ornamentals, and other grassy areas. Mix 3-6 fl oz per 1000 sq ft in sufficient water for thorough coverage Apply before stress cycles begin and repeat at least twice a month. Allow at least 6 hours before/after irrigation event for maximum benefits.

Shake well before dispensing. Always perform jar test before use.

#### **Guaranteed Analysis**

Derived from urea, potassium citrate, potassium acetate, manganese amino acid complex, sodium molybdate and zinc amino acid complex.



## **GREENSPEC GRANULAR NUTRIENTS**

GRIGG GreenSpec is the turfgrass industry's premier granular nutrient line. It is designed to complement GRIGG Proven Foliar products in integrated nutrition programs.

- Pure, homogeneous formulations provide soluble, efficient nutrition
- Low dust formulations dissolve easily and have excellent spreading characteristics
- Greens grade prills effectively penetrate dense turfgrass canopies on putting greens
- Perform in a variety of agronomic conditions



### **CK-BALANCE**

0-0-24

GRIGG CK-Balance is a greens grade micro-granular (70-90 SGN) that contains 24% soluble potash, 18% calcium and 8% sulfur. It is recommended for monthly, in-season use to maintain turf strength and vigor during periods of heavy use.

#### **Key Advantages**

- Provides soluble, efficient nutrients
- Small particle size can pass through 200 mesh sieve
- Soluble potassium is derived from sulfate of potash. Potassium regulates primary physiological processes that impact turf response to stress and supports cellular processes that impact photosynthesis, water regulation, respiration and protein production

#### **Application and Use**

General Maintenance of Cool and Warm Season Grasses: Apply 3-6 lb per 1,000 sq ft or 131-261 lb per acre [1.5-3 kg per 100 sq m or 146-292 kg per hectare] as needed.

Make frequent applications at lower rates, or apply higher rates at times of greater plant demand. Optimum rate of application will vary depending on treatment interval, soil properties (such as pH, organic matter content, texture), weather conditions, time of year, plant species and its nutrient requirements. For best results, follow soil/tissue test recommendation.

#### **Guaranteed Analysis**

Soluble Potash (K <sub>2</sub> O)	24.0%
Calcium (Ca)	18.0%
Sulfur (S)	8.0%

Derived from sulfate of potash and calcium carbonate.



## SEVEN IRON

7-7-7

GRIGG Seven Iron is the flagship product of the GRIGG Green Spec granular nutrient line. It provides three sources of nitrogen, phosphorus, potassium, secondary and micronutrients, sea plant extract and humic acid. It corrects nutrient deficiencies and maintains turf color. It is recommended for pre-plant or starter applications during turf establishment.

Available in greens grade (100-120 SGN).

#### **Key Advantages**

- Contains soluble nutrients for efficient uptake and use at a 1:1:1 ratio of NPK
- Contains ferrous sulfate which supplies quickly available iron. Iron plays a key role in chlorophyll production, which improves turf color.
- Nitrogen promotes consistent turfgrass shoot growth
- Phosphorus plays a role in plant metabolic processes that transfer energy throughout the plant
- Soluble potassium is derived from sulfate of potash. Potassium regulates primary physiological processes that impact turf response to stress and supports cellular processes that impact photosynthesis, water regulation, respiration and protein production.

#### **Application and Use**

General Maintenance of Cool and Warm Season Grasses: Apply 7-14 lb per 1,000 sq ft or 305-610 lb per acre [3.5-7 kg per 100 sq m or 342-684 kg per hectare] as needed.

Promote Plant Recovery: Use this product to increase turfgrass vigor and recovery from mechanical and/or environmental stress. Apply 8 lb per 1,000 sq ft or 350 lb per acre [4 kg per 100 sq m or 390 kg per hectare] 1-3 days after aeration, spiking, verticutting or other mechanical disruption to promote recuperation and speed time to recovery.

## Guaranteed Analysis Total Nitrogen (N) .......

1.4% Ammoniacal nitrogen
4.6% Urea nitrogen
1.0% Water insoluble nitrogen
vailable Phosphate (P <sub>2</sub> O <sub>5</sub> )
oluble Potash (K <sub>2</sub> O)7.0%
Calcium (Ca)
ulfur (S)7.0%
7.0% Combined sulfur
on (Fe)
2.3% Water soluble iron

Manganese (Mn) . . . . . . . . . . . . . . . . . 1.5%

Derived from monoammonium phosphate, urea, soybean meal, sulfate of potash, gypsum, ferrous sulfate, iron sucrate, manganese sulfate, manganese sucrate, zinc sucrate and kelp (Ascophyllum nodosum).

#### ALSO CONTAINS NON-PLANT FOOD INGREDIENTS:

2.5% Humic acids derived from Leonardite

1.3% Water soluble manganese

0.05% Water soluble zinc

**Establishment:** As a pre-plant fertilizer, incorporate 14 lb per 1,000 sq ft or 610 lb per acre [7 kg per 100 sq m or 684 kg per hectare] to root-zone mix or soil during seedbed preparation. To increase establishment vigor, uniformity and color during over/interseeding of existing turfgrass swards, apply 10 lb per 1,000 sq ft or 435 lb per acre [5 kg per 100 sq m or 488 kg per hectare] every 4-6 weeks.

Make frequent applications at lower rates, or apply higher rates at times of greater plant demand. Optimum rate of application will vary depending on treatment interval, soil properties (such as pH, organic matter content, texture), weather conditions, time of year, plant species and its nutrient requirements. For best results, follow soil/tissue test recommendation.

For suggested spreader settings, visit grigg.co/greenspec-granular/

## **TURF RALLY**

16-4-8

GRIGG Turf Rally contains four sources of nitrogen, phosphorus, potassium, secondary and micronutrients, sea plant extract and humic acid. It helps correct nutrient deficiencies and provides turf color.

Available in greens grade (100-120 SGN).

#### **Key Advantages**

- Contains soluble nutrients for efficient uptake and use
- Nitrogen provides even feeding and promotes consistent turfgrass shoot growth
- Contains iron sucrate. Iron plays a key role in chlorophyll production, which improves turf color

#### **Application and Use**

General Maintenance of Cool and Warm Season Grasses: Apply 3-6 lb per 1,000 sq ft or 174-261 lb per acre [2-3 kg per 100 sq m or 195-292 kg per hectare] as needed.

This product will increase turfgrass uniformity, vigor and color after establishment or for existing turgrass swards. Make frequent applications at lower rates, or apply higher rates at times of greater plant demand. Optimum rate of application will vary depending on treatment interval, soil properties (such as pH, organic matter content, texture), weather conditions, time of year, plant species and its nutrient requirements. For best results, follow soil/tissue test recommendation.

For suggested spreader settings, visit grigg.co/greenspec-granular/

Derived from ammonium sulfate, monoammonium phosphate, urea, methylene urea, soybean meal, sulfate of potash, gypsum, calcium carbonate, iron sucrate, manganese sulfate, manganese sucrate, zinc sucrate and kelp (Ascophyllum nodosum).

#### ALSO CONTAINS NON-PLANT FOOD INGREDIENTS:

2.5% Humic acids derived from Leonardite



## **SPECIALTY SOIL FERTILIZERS**

GRIGG specialty soil fertilizers deliver readily available nutrients to the root zone and promote root growth and overall turf quality. They are designed to complement GRIGG Proven Foliar nutrients and GRIGG GreenSpec granular nutrients.

Unlike GRIGG Proven Foliar products, specialty soil fertilizers should be watered into the root zone soon after application for best results.



## IRON 12-0-0

12-0-0

GRIGG Iron 12-0-0 contains 12% nitrogen and amino acid complexed iron, manganese and zinc. It is an excellent option for fairways to improve turf vigor and color.

#### **Key Advantages**

- Contains soluble nutrients for efficient uptake and use
- Nitrogen promotes consistent turfgrass shoot growth
- Iron plays a key role in chlorophyll production, which improves turf color
- Recommended for golf and sports turf

#### **Application and Use**

**Cool Season Grasses:** Apply 4-12 fl oz per 1,000 sq ft or 1.25-4 gal per acre [13-40 L per hectare] as needed every 7-14 days.

**Warm Season Grasses:** Apply 6-15 fl oz per 1,000 sq ft or 2-5 gal per acre [20-50 L per hectare] as needed every 7-14 days.

Make frequent applications at lower rates, or apply higher rates at times of greater plant demand. Optimum rate of application will vary depending on treatment interval, soil properties (such as pH, organic matter content, texture), weather conditions, time of year, plant species and its nutrient requirements. For best results, follow soil/tissue test recommendation.

	Guaranteed Analysis
-	Total Nitrogen12.0%
	12.0% Urea nitrogen
I	ron (Fe)
	5.0% Water soluble iron
1	Manganese (Mn)
	0.5% Water soluble manganese
-	Zinc (Zn)
	0.5% Water soluble zinc

Derived from urea, iron amino acid complex, manganese amino acid complex and zinc amino acid complex.



## **BI BLEND**

10-0-0

GRIGG Bi Blend is a liquid fertilizer that contains 5% calcium and three sources of nitrogen. It improves turf strength and vigor. It may be used on all soil types and is especially beneficial in sandy soils.

#### **Key Advantages**

- Contains soluble nutrients for efficient uptake and use
- Nitrogen promotes consistent turfgrass shoot growth
- Calcium is important for cell wall strength
- GRIGG Bi Blend may be used with Grigg Rhizonify, which provides additional nutrition and an anionic surfactant

#### **Application and Use**

Cool or Warm Season Grasses

**Soil Application:** Apply 3-6 fl oz per 1,000 sq ft or 1-2 gal per acre [10-20 L per hectare] every 14-28 days or as needed.

Make frequent applications at lower rates, or apply higher rates at times of greater plant demand. Optimum rate of application will vary depending on treatment interval, soil properties (such as pH, organic matter content, texture), weather conditions, time of year, plant species and its nutrient requirements. For best results, follow soil/tissue test recommendation.

### Guaranteed Analysis

1.0% Ammoniacal nitrogen

5.0% Nitrate nitrogen

4.0% Urea nitrogen

Derived from urea, urea ammonium nitrate and calcium nitrate.



## **BURLEY GREEN**

18-2-3

GRIGG Burley Green is a liquid fertilizer that contains potassium, phosphorus, urea and slow release nitrogen. It provides extended feeding and is an excellent value for fairway applications. It may be applied foliarly or through fertigation.

#### **Key Advantages**

- Contains soluble nutrients for efficient uptake and use
- Slow release nitrogen promotes consistent turfgrass shoot growth
- Phosphorus plays a role in plant metabolic processes that transfer energy throughout the plant
- Potassium regulates primary physiological processes that impact turf response to stress and supports cellular processes that impact photosynthesis, water regulation, respiration and protein production
- GRIGG Burley Green may be used with GRIGG foliar nutrients complexed with amino acids

#### **Application and Use**

**Foliar and Soil Applications:** Apply as needed every 21-28 days.

**Cool Season Grasses:** Apply 6-9 fl oz per 1000 sq ft or 2-3 gal per acre [20-30 L per hectare].

Warm Season Grasses: Apply 9-15 fl oz per 1000 sq ft or 3-5 gal per acre [30-50 L per hectare].

Make frequent applications at lower rates, or apply higher rates at times of greater plant demand. Optimum rate of application will vary depending on treatment interval, soil properties (such as pH, organic matter content, texture), weather conditions, time of year, plant species and its nutrient requirements. For best results, follow soil/tissue test recommendation.

Guaranteed Analysis
Total Nitrogen (N)
12.0% Urea nitrogen
6.0% Other water soluble nitrogen*
Available Phosphate (P <sub>2</sub> O <sub>5</sub> )
Soluble Potash (K <sub>2</sub> O)

Derived from urea, methylene diurea, methylene urea, phosphoric acid and potassium citrate.

\*6% Slowly available nitrogen from methylene diurea and methylene urea.



## GRIGG DISPLACE

9-0-0

GRIGG Displace is a liquid fertilizer that contains two sources of nitrogen, 12% calcium and a wetting agent. It provides superior soil penetration – even on hard-to-wet, hydrophobic soils.

#### **Key Advantages**

- Contains soluble nutrients for efficient uptake and use
- Nitrogen promotes consistent turfgrass shoot growth
- Calcium is important for cell wall strength

#### **Application and Use**

**Maintenance Rate:** Apply every 7-21 days. Water-in for best results or apply before rainfall.

**Cool Season Grasses:** 6-12 fl oz per 1,000 sq ft or 2-4 gal per acre [20-40 L per hectare].

*Warm Season Grasses:* 9-15 fl oz per 1,000 sq ft or 3-5 gal per acre [30-50 L per hectare].

**Poor Irrigation Water Quality or Sodic Conditions:** Apply every 7-10 days. Water-in for best results or apply before rainfall.

*Cool Season Grasses:* 9-12 fl oz per 1,000 sq ft or 3-4 gal per acre [30-40L per hectare].

*Warm Season Grasses:* 12-15 fl oz per 1,000 sq ft or 4-5 gal per acre [40-50L per hectare].

Make frequent applications at lower rates, or apply higher rates at times of greater plant demand. Optimum rate of application will vary depending on treatment interval, soil properties (such as pH, organic matter content, texture), weather conditions, time of year, plant species and its nutrient requirements. For best results, follow soil/ tissue test recommendation.



Derived from calcium nitrate and urea.

ALSO CONTAINS NON-PLANT FOOD INGREDIENTS: 2% Wetting Agent



## GRIGG REZADONE

GRIGG Rezadone is a liquid solution formulated to effectively break down grass clippings, thatch and improve water flow through the soil profile to breakdown and reduce black layer. Leveraging advanced, patent-pending microbe technology, GRIGG Rezadone optimizes the environmental conditions to enhance microbial longevity and activity, ensuring comprehensive organic matter decomposition within the turfgrass.

#### **Key Advantages**

- Accelerates the breakdown of organic components for healthier turfgrass.
- Nutrient release from tied-up elements supports vigorous growth and enhances turfgrass coloration.
- Reduces the need for frequent aeration, preserving soil structure and integrity
- Improves soil quality, supporting stronger and more resilient turf growth.

#### **Application and Use**

**Thatch Management:** Apply 12.8 fl oz per acre every 14-28 days until desired results are achieved.

**Black Layer Management:** Apply 5 fl oz per 1,000 sq. ft. and water thoroughly. Make applications every 30 to 60 days until desired results are achieved.

Make frequent applications at lower rates or apply higher rates at times of greater plant demand. Optimum rate of application will vary depending on treatment interval, soil properties (such as pH, organic matter content, texture), weather conditions, time of year, plant species and its nutrient requirements. For the best results, follow soil/tissue test recommendation.

#### **Guaranteed Analysis**

Alkyl Polygucoside (surfactant) 35%
Organic acids (pH buffer)5%
Rheology and dispersant agents 5%
Fulvic Acid1%
CFU's per ml/(g)
Bacillus coagulans 5.54 x 10 <sup>7</sup>
Bacillus amyloliquefaciens 6.24 x 10 <sup>7</sup>
Bacillus licheniformis 2.12 x 10 <sup>8</sup>
Bacillus megaterium 6.24 x 10 <sup>7</sup>
Bacillus pumilus
Total CFU's

In the liquid form, contains 2 .1 Trillion total colony forming units (CFU's) of per gallon (2 .1  $\times$  1012 CFU/gal of the above microbes (1 gm = 1 ml).



## GRIGG RHIZONIFY

6-4-4

GRIGG Rhizonify is a liquid fertilizer that contains three sources of nitrogen, phosphorus, potassium, amino acid complexed micronutrients and a wetting agent. It provides superior soil penetration – even on hard-to-wet, hydrophobic soils. This improves soil moisture uniformity and targeted nutrient placement. Recommended for golf and sports turf, particularly on areas suffering from localized dry spot.

#### **Key Advantages**

- Contains soluble nutrients for efficient uptake and use
- Nitrogen application promotes consistent turfgrass shoot growth
- Phosphorus plays a role in plant metabolic processes that transfer energy throughout the plant
- Potassium regulates primary physiological processes that impact turf response to stress and supports cellular processes that impact photosynthesis, water regulation, respiration and protein production

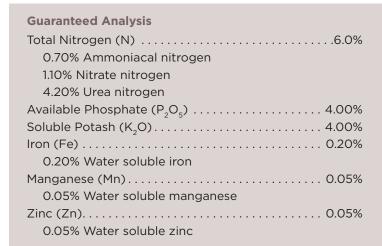
#### **Application and Use**

**Soil Application:** Apply as needed every 14-28 days. Water-in for best results or apply before rainfall.

*Tees, Greens:* 9-12 fl oz per 1,000 sq ft or 3-4 gal per acre [30-40 L per hectare].

*Fairways, Sports Fields:* 12-15 fl oz per 1,000 sq ft or 4-5 gal per acre [40-50 L per hectare].

Make frequent applications at lower rates, or apply higher rates at times of greater plant demand. Optimum rate of application will vary depending on treatment interval, soil properties (such as pH, organic matter content, texture), weather conditions, time of year, plant species and its nutrient requirements. For best results, follow soil/tissue test recommendation.



Derived from monoammonium phosphate, potassium nitrate, urea, iron amino acid complex, manganese amino acid complex and zinc amino acid complex.

ALSO CONTAINS NON-PLANT FOOD INGREDIENTS: 3% Wetting Agent



## **PIGMENTS FOR TURFGRASS MANAGEMENT**

#### **Overview of Pigments**

Pigments optimize turf color, quality and aesthetics. Other pigments provide additional benefits, including protection and increased reflection of near infrared (NIR) and UV light.

GRIGG research has documented an increase in NIR light reflectance from turf treated with GreenPIG. We continue to learn how this measurement correlates with decreased oxidative stress.

Turf managers have the ability to use colorants for a specific agronomic objective, or simply paint the turf. Applying pigment provides additional color and is an excellent alternative to overseeding.

In general, pigments and paints are chemically similar, but very different physically. For pigmented products, the formulation and inert ingredients determine its use.

#### **Key Advantages**

- Low viscosity and metal load, hence lower weight
- Compatible with tank mix partners such as crop protectants and plant growth regulators
- Designed for repeated use
- Increased reflectance of potentially damaging NIR light

#### **Things to Consider When Choosing a Pigment**

Carefully consider the turf species, stage of growth, and height of cut to determine the correct rate and application frequency. If you select a pigment, apply prior to turf dormancy (while turf is actively growing) and continue using routinely during the entire dormancy period\*.

Product	Golf Applications	Sports Applications	Actively Growing Turf	Semidormant Turf	Dormant Turf	Near Infrared Protection	UV Protection
GRIGG GreenPIG			•		•		•
GRIGG GreenPIG Ultra							

- Ideal application as determined by desired results
- Possibly good results if factors considered
- Less than ideal results

\*The color attained using pigmented products is very subjective and should be tested prior to extensive use in order to determine optimum rate and application interval at different sites. Products list recommended rates as a guideline. 34

#### **GRIGG**

# GREENPIG PREMIUM TURF PIGMENTS



#### **GRIGG GreenPIG**

Flagship product that contains a high quality, concentrated pigment and provides a natural green color for up to one month. It also reflects potentially harmful near infared light, which may improve turf quality and vigor. It is recommended for general use and the low application rate provides great value.

Do NOT apply to dormant or semi-dormant turfgrass.

#### **GRIGG GreenPIG Ultra**

This formulation offers the same benefits as GRIGG GreenPIG, but provides a darker green color for up to one month. It is recommended for turf that has lost its color, including dormant turf.

Approved for use on dormant and semi-dormant turfgrass.

# Optimum rate of application will vary depending on treatment interval, turfgrass species, mowing height, weather conditions and time of year. Generally, higher mowing heights and warm season turfgrasses will require higher rates to achieve the best results.

#### **Application and Use**

GRIGG GreenPig / GRIGG GreenPig Ultra

Maintenance Rate: Apply with 50-100 gallons of water [190-380 L of water]

Golf Course Putting Greens: 12-24 fl oz per acre [660 mL-1.5L per hectare]

Golf Course Fairways: 18-32 fl oz per acre [1.25-2.25 L per hectare].

Sports Fields: 24-34 fl oz per acre [1.5-2.5 per hectare].

## **LIQUID NUTRIENT ANALYSIS**

								Nut	rient	Con	tent				
<b>Proven Foliar Nutrients</b>	Specific Gravity	lbs per 100 gal	рН	N	P <sub>2</sub> O <sub>5</sub>	K <sub>2</sub> O	В	Ca	Со	Cu	Fe	Mg	Mn	Мо	Zn
GRIGG Advantage	1.160 lbs of Nutrient	9.7 per gal:	6-8	5.0% 0.485		1.0% 0.097	0.05% 0.0485						0.75% 0.07275	0.001% 0.000097	0.75% 0.07275
GRIGG A-O-K	1.260 lbs of Nutrient	10.515 per gal:	7.60	2.0% 0.2103		24.0% 2.5237									
GRIGG Fairphyte	1.480 lbs of Nutrient	12.351 per gal:	6.70	1.0% 0.1235		25.0% 3.080									
GRIGG Gary's Green	1.290 lbs of Nutrient	10.766 per gal:	2.90	18.0% 1.9378	3.0% 0.3230	4.0% 0.4306				0.12% 0.0129	1.0% 0.1077	0.5% 0.0538	0.1% 0.0108		0.1% 0.0108
GRIGG Gary's Green Ultra	1.280 lbs of Nutrient	10.682 per gal:	3.70	14.0% 1.495	2.0% 0.2136	3.0% 0.3205	0.02% 0.002			0.12% 0.0128	1.4% 0.1495	0.5% 0.0534	0.2% 0.0214		0.2% 0.0214
GRIGG Iron Combo 1-0-2	1.430 lbs of Nutrient	11.934 per gal:	2.70	1.0% 0.1193		2.0% 0.2387	0.16% 0.0191			0.13% 0.0155	4.0% 0.4774		1.0% 0.1193		0.8% 0.095
GRIGG Kelplex	1.100 lbs of Nutrient	9.180 per gal:	4.54	1.0% 0.0918	2.0% 0.1836	2.0% 0.1836					0.1% 0.01				
GRIGG Magnesium Complex	1.230 lbs of Nutrient	10.265 per gal:	0.60									5.0% 0.5132			
GRIGG Manganese Combo	1.350 lbs of Nutrient	11.266 per gal:	2.38							0.4% 0.0451		1.2% 0.1352	5.0% 0.5633		1.0% 0.1127
GRIGG MegAleX	1.055 lbs of Nutrient	8.8 per gal:	6-8	3.0% 0.264											
GRIGG Micro Burst	1.330 lbs of Nutrient	11.099 per gal:	2.00			1.0% 0.1110	0.04% 0.0044			0.05% 0.0055	3.4% 0.3774	0.3% 0.0333	2.4% 0.2664	0.01% 0.0011	1.0% 0.111
GRIGG Nutra Green	1.370 lbs of Nutrient	11.433 per gal:	2.50	5.0% 0.5717	10.0% 1.1433	5.0% 0.5717	0.12% 0.0137			0.1% 0.0114	1.0% 0.1143	1.0% 0.1143	0.5% 0.0572		0.1% 0.0114
GRIGG P-K Plus	1.370 lbs of Nutrient	11.433 per gal:	7.05	3.0% 0.3430	5.0% 0.571	17.0% 1.943	0.02% 0.0023		0.01% 0.0011					0.001% 0.0001	
GRIGG Kal-B	1.470 lbs of Nutrient	12.268 per gal:	1.50	8.0% 0.9814		4.0% 0.4907	0.05% 0.0061	10.0% 1.2268							
GRIGG Suprema	1.310 lbs of Nutrient	10.932 per gal:	6.30	12.0% 1.3119		12.0% 1.3119		•••••••			1.0% 0.1093		0.05% 0.0055		0.05% 0.0055
GRIGG Tuff Turf	1.310 lbs of Nutrient	10.932 per gal:	4.30	1.0% 0.1093		14.0% 1.5305					0.5% 0.0547	0.5% 0.0547			
GRIGG Ultraplex	1.280 lbs of Nutrient	10.682 per gal:	2.90	4.0% 0.4273		3.0% 0.3205	0.05% 0.0053			0.05% 0.0053	1.95% 0.208	0.5% 0.0534	0.4% 0.0427		0.4% 0.0427
GRIGG Upplause Plus	1.100 lbs of Nutrient	9.2 per gal:	6-8	10.0% 0.920		•					•		•		
Soil Specialty Fertilizers	Specific Gravity	lbs per 100 gal	рН	N	P <sub>2</sub> O <sub>5</sub>	K <sub>2</sub> O	В	Ca	Со	Cu	Fe	Mg	Mn	Мо	Zn
GRIGG Iron 12-0-0	1.290 lbs of Nutrient	10.766 per gal:	2.50	12.0% 1.2919							5.0% 0.5383		0.5% 0.0538		0.5% 0.0538
GRIGG Bi Blend	1.320 lbs of Nutrient	11.016 per gal:	1.00	10.0% 1.1016				5.0% 0.5508							
GRIGG Burley Green	1.480 lbs of Nutrient	1.190 per gal:	8.80	18.0% 1.7876	2.0% 0.1986	3.0% 0.2979									
GRIGG Displace	1.480 lbs of Nutrient	12.350 per gal:	0.75	9.0% 1.112				12.0% 1.4820							
GRIGG Rhizonify	1.280 lbs of Nutrient	10.682 per gal:	3.74	6.0% 0.6409	4.0% 0.4273	4.0% 0.4273					0.2% 0.107		0.05% 0.0053		0.05% 0.0053

## **GRIGG BI-MONTHLY SUCCESS KIT**

#### 3 Month Program

#### Treats 3 acres for 3 months

The GRIGG Bi-Monthly Success kit provides a convenient, high-performance foliar nutrient solution to support turf health year-round. Backed by decades of trust and innovation, GRIGG combines research-driven development with proven results to ensure rapid absorption and efficient nutrient uptake, optimizing turf performance across diverse climates and seasons.

Specifically formulated for both warm and cool season greens, the GRIGG Bi-Monthly Success Kit supplies 13 essential elements to enhance turf vigor, strengthen root development, improve disease resistance, and promote overall health.



Application 1			
Product	Rate	Gallons	Cases
GRIGG Ultraplex	3oz/1000 ft <sup>2</sup>	9	2
GRIGG Kal-B	30z/1000 ft²	9	2
GGRIG Gary's Green	9oz/1000 ft²	27	6
GRIGG Tuff Turf®	3oz/1000 ft <sup>2</sup>	9	2
Total Cases - Applicat	tion 1		12

Application 2			
Product	Rate	Gallons	Cases
GRIGG Ultraplex	3oz/1000 ft <sup>2</sup>	9	2
Turftopia	30z/1000 ft²	9	2
GRIGG Burley Green	30z/1000 ft²	9	2
GRIGG P-K Plus	6oz/1000 ft²	8	4
Total Cases - Applicat	tion 2		10

|--|

## **GRIGG APPLICATION GUIDELINES**

#### Fundamental Instructions for Applications and Programs

#### **Very Important**

Most liquid products are designed to be foliar absorbed. For maximum performance, apply early in the morning or late in the evening with 1-2 gallons of water per 1,000 sq ft [300-600 L/Ha]. Allow the application to dry on plant 3-6 hours before watering.

#### **Surfactants**

GRIGG Ultraplex is a foliar nutrition product that contains a non-ionic surfactant (*Yucca schidigera*), which reduces water surface tension to improve foliar application wetting and absorption. No additional surfactant is necessary when using this product. GRIGG Ultraplex is a critical foundation product and should be the first thing added to the water of your spray tank mix. The recommended rate is 3 fl oz per 1000 sq ft [10 L/Ha].

#### Compatibility

GRIGG Proven Foliar nutrients are compatible with each other and most fungicides, herbicides, and pesticides when tank mixed at recommended rates. A jar test is always recommended as a part of standard operating procedure. The high degree of compatibility of the Proven Foliar line includes the ability to be mixed with other foliar applied fungicides, insecticides and herbicides that do not need to be watered in. When mixing with herbicides, consider using the lowest label rate as GRIGG products may enhance the uptake of the herbicide.

#### Rates

To convert 14 day programs to 7 day programs lower rates by one half (1/2) or two thirds (2/3) of original rate.

#### **Minors**

GRIGG straight chelated nutrients or any other Proven Foliar nutrient can be added to any program as indicated by soil and tissue test results. Typical rates for adding individual micronutrients range between 1-3 fl oz per 1,000 sq ft [3-10 L/Ha]. For severe deficiencies, as much as 6 fl oz per 1,000 sq ft [20 L/Ha].

#### **Soil Specialty Nutrition Program**

For sand based greens, use 1 gallon per acre [10 L/Ha] of GRIGG Bi Blend and 4 gallons per acre [40 L/Ha] of GRIGG Rhizonify applied monthly and lightly watered in. For soil based greens use 1/2 gallon per acre [5 L/Ha] of GRIGG Bi Blend and 2 1/2 gallons per acre [25 L/Ha] of GRIGG Rhizonify.

#### **Program Balance**

GRIGG Proven Foliar nutrients are an effective method of providing nutrients to the plant. However, we also recommend supplementing with GRIGG GreenSpec granular nutrients year round as determined by soil testing to complete a total program.

#### **Intervals**

Unless otherwise stated, GRIGG nutrition programs should typically be applied every 7-14 days. There is flexibility to accommodate differing management styles and between 1 to 3 weeks is acceptable if rates are

adjusted accordingly.

#### **Expertise**

If you want to create site-specific programs that are tailored to the individual needs and unique factor of a site, contact your distributor or GRIGG technical representative today.

#### Research

GRIGG is committed to participating in ongoing independent university research trials. Our agronomists adjust recommended rates and other application guidelines in accordance with the most recent research findings. Visit grigg.co to find the latest program recommendations

## **SPREADER SETTINGS**

#### **GRIGG GREENSPEC Recommended Rates**

#### **GRIGG™ Turf Rally™ 16-4-8**

Spreader	FAIRWAY GR	ADE - 6.25 lbs per	1,000 ft <sup>2</sup>	GREENS GR	ADE - 3.12 lbs per	1,000 ft²
	Ground Speed / MPH	Width of Coverage / FT	Setting	Ground Speed / MPH	Width of Coverage / FT	Setting
Scott R8	3	10	L1⁄2	3	10	I
Spyker / Best	3	9	5.1	3	9	3.7
Lesco	3	10	J or 22	3	10	E 1/2 or 13
Lely (1250)	4.5	34	61⁄4	4.5	30	41⁄2
Accupro 2000	3	10	M1/2	3	10	J
Earthway	3	10	19 1⁄2	3	10	14 1⁄2
Vicon (03 series)	4.5	28	38	4.5	22	20

#### GRIGG™ Seven Iron™ 7-7-7

Spreader	FAIRWAY G	RADE - 6.25 lbs p	er 1,000 ft²	GREENS G	RADE - 8 lbs per 1	,000 ft²
	Ground Speed / MPH	Width of Coverage / FT	Setting	Ground Speed / MPH	Width of Coverage / FT	Setting
Scott R8	3	10	0	3	10	K 3/4
Spyker / Best	3	9	5.7	3	9	4.6
Lesco	3	10	K 3/4 or 25 1/2	3	10	H 1/2 or 19
Lely (1250)	4.5	34	63/4	4.5	30	5 3⁄4
Accupro 2000	3	10	Р	3	10	L 3/4
Earthway	3	10	23 1⁄2	3	10	18
Vicon (03 series)	4.5	24	39	4.5	22	30

## **BERMUDA GRASS**

## **Nutrition Programs**

#### Southern

Every spray:		
GRIGG Proven Foliar	fl oz/1,000 ft <sup>2</sup>	L/Ha
GRIGG Gary's Green	3-6	9-20
GRIGG Ultraplex	3	10
GRIGG Manganese Combo	2	6

Plus, every other spray:		
GRIGG Proven Foliar	fl oz/1,000 ft <sup>2</sup>	L/Ha
GRIGG P-K Plus	6	20

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.

#### **Low Desert**

20W Desert		
Early Spring:		
GRIGG Proven Foliar	fl oz/1,000 ft <sup>2</sup>	L/Ha
GRIGG Ultraplex	3	10
GRIGG Nutra Green	3	10
GRIGG Micro Burst	2	6
GRIGG Kal-B	3	10
Late Spring transition:		
GRIGG GreenSpec	lbs/1,000 ft <sup>2</sup>	g/m²
GRIGG Seven Iron	7	30
GRIGG Proven Foliar	fl oz/1,000 ft <sup>2</sup>	L/Ha
GRIGG Gary's Green Ultra	9	30
GRIGG Tuff Turf	3	10
Summer:		
GRIGG Proven Foliar	fl oz/1,000 ft <sup>2</sup>	L/Ha
GRIGG Gary's Green	9	30
Late Summer/early Fall:		
GRIGG Proven Foliar	fl oz/1,000 ft <sup>2</sup>	L/Ha
GRIGG A-O-K	6	20
GRIGG Kal-B	3	10
Low desert overseeding:		
GRIGG GreenSpec	lbs/1,000 ft <sup>2</sup>	g/m²
GRIGG Seven Iron	8-12	30-50
1-2 weeks following granul 14 day rotation:	ar application, a	oply on
GRIGG Proven Foliar	fl oz/1,000 ft <sup>2</sup>	L/Ha
GRIGG Gary's Green Ultra	3-9	10-30
(Rate should start a 3 fl oz a	nd increase as turf	matures)
GRIGG P-K Plus	6	20
GRIGG Nutra Green	6	20
Winter:		
GRIGG Proven Foliar	fl oz/1,000 ft <sup>2</sup>	L/Ha
GRIGG Ultraplex	3	10
GRIGG Nutra Green	3	10
GRIGG Micro Burst	2	6

## **DESERT**

#### **Nutrition Programs**

#### **Overseeding**

At planting and/or after the 2nd or 3rd mowing of the seedling turf:					
GRIGG GreenSpec	lbs/1,000 ft <sup>2</sup>	g/m²			
GRIGG Seven Iron	10	40			
1-2 weeks later:					
GRIGG Proven Foliar	fl oz/1,000 ft <sup>2</sup>	L/Ha			
GRIGG P-K Plus	6	20			
GRIGG Gary's Green Ultra	6	20			
1-2 months later, every 7-1	O days:				
GRIGG Proven Foliar	fl oz/1,000 ft <sup>2</sup>	L/Ha			
GRIGG P-K Plus	6	20			

Rate should start at 6 fl oz [20 L/Ha] and increase as the turf matures.

GRIGG Gary's Green Ultra

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  $[g/m^2]$ .

#### **Low/High Desert Bentgrass**

Early Spring:	fl /2 000 ft2	1 /11
GRIGG Proven Foliar	fl oz/1,000 ft <sup>2</sup>	L/Ha
GRIGG Gary's Green Ultra	6	20
GRIGG Nutra Green	4	15
GRIGG Kal-B	4	15
GRIGG Tuff Turf	4	15
Late Spring:		
GRIGG Proven Foliar	fl oz/1,000 ft <sup>2</sup>	L/Ha
GRIGG Gary's Green Ultra	6	20
GRIGG P-K Plus	6	20
GRIGG Kelplex	2	6
Summer:		
<b>GRIGG Proven Foliar</b>	fl oz/1,000 ft <sup>2</sup>	L/Ha
GRIGG Gary's Green Ultra	6	20
GRIGG P-K Plus	6	20
GRIGG Kelplex	2	6
GRIGG Tuff Turf	3	10
Fall:		
GRIGG Proven Foliar	fl oz/1,000 ft <sup>2</sup>	L/Ha
GRIGG Gary's Green Ultra	6	20
GRIGG P-K Plus	6	20
GRIGG Tuff Turf	4	15
GRIGG Manganese Combo	2	6
Winter:		
GRIGG Proven Foliar	fl oz/1,000 ft <sup>2</sup>	L/Ha
GRIGG Gary's Green Ultra	6	20
GRIGG Manganese Combo	2	6
GRIGG Nutra Green	4	15
		•••••

GRIGG Kal-B

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## FLOWER FOLIAR FERTILITY

## **Nutrition Program**

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.

Annual flowers: rotate products, drench every 7 days with one or the other					
GRIGG Proven Foliar	fl oz/gallon	L/Ha			
GRIGG Nutra Green	1	4			
GRIGG P-K Plus	1	4			
Annual flowers: drench	every 14 days				
GRIGG Proven Foliar	fl oz/gallon	L/Ha			
GRIGG Proven Foliar GRIGG Nutra Green	fl oz/gallon 0.5	L/Ha 4			

## **GREAT LAKES REGION**

## **Nutrition Programs**

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.

Spring aeration: 5-7 days prior to aeration			
GRIGG GreenSpec	lbs/1,000 ft <sup>2</sup>	g/m²	
GRIGG Seven Iron	10	40	
Spring: Mar-Apr every 7-10	days		
GRIGG Proven Foliar	fl oz/1,000 ft <sup>2</sup>	L/Ha	
GRIGG Nutra Green	6	20	
GRIGG Ultraplex	6	20	
Late Spring: Apr-May ever	y 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	
Summer: June-Aug every 7	7-10 days		
GRIGG Proven Foliar	fl oz/1,000 ft <sup>2</sup>	L/Ha	
GRIGG Proven Foliar GRIGG Gary's Green Ultra	fl oz/1,000 ft² 6-9	<b>L/Ha</b> 20-30	
GRIGG Gary's Green Ultra	6-9	20-30	
GRIGG Gary's Green Ultra GRIGG P-K Plus	6-9 6 2	20-30 20	
GRIGG Gary's Green Ultra GRIGG P-K Plus GRIGG Kelplex	6-9 6 2	20-30 20	
GRIGG Gary's Green Ultra GRIGG P-K Plus GRIGG Kelplex Fall: Sept-Nov every 7-10 of	6-9 6 2 days	20-30 20 6	
GRIGG Gary's Green Ultra GRIGG P-K Plus GRIGG Kelplex Fall: Sept-Nov every 7-10 G GRIGG Proven Foliar	6-9 6 2 days fl oz/1,000 ft²	20-30 20 6 L/Ha	
GRIGG Gary's Green Ultra GRIGG P-K Plus GRIGG Kelplex Fall: Sept-Nov every 7-10 of GRIGG Proven Foliar GRIGG Ultraplex GRIGG P-K Plus or	6-9 6 2 days fl oz/1,000 ft <sup>2</sup> 3	20-30 20 6 L/Ha 10	
GRIGG Gary's Green Ultra GRIGG P-K Plus GRIGG Kelplex Fall: Sept-Nov every 7-10 c GRIGG Proven Foliar GRIGG Ultraplex GRIGG P-K Plus or GRIGG Tuff Turf	6-9 6 2 days fl oz/1,000 ft <sup>2</sup> 3 6	20-30 20 6 <b>L/Ha</b> 10 20	
GRIGG Gary's Green Ultra GRIGG P-K Plus GRIGG Kelplex Fall: Sept-Nov every 7-10 of GRIGG Proven Foliar GRIGG Ultraplex GRIGG P-K Plus or GRIGG Tuff Turf GRIGG Rhizonify	6-9 6 2 days fl oz/1,000 ft <sup>2</sup> 3 6	20-30 20 6 <b>L/Ha</b> 10 20	

## **MID-ATLANTIC REGION**

#### Foliar and Granular Nutrition Programs

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.

3-5 days prior to aeration a	nd the week of a	eration:
GRIGG Proven Foliar	fl oz/1,000 ft <sup>2</sup>	L/Ha
GRIGG Nutra Green	6	20
GRIGG Gary's Green Ultra	12	40
One day after aeration and	topdressing:	
GRIGG GreenSpec	lbs/1,000 ft <sup>2</sup>	g/m²
GRIGG Seven Iron	10	40
Late Spring/early Fall: ever	y 7-10 days	
GRIGG Proven Foliar	fl oz/1,000 ft <sup>2</sup>	L/Ha
GRIGG Gary's Green Ultra	6	20
GRIGG Nutra Green	3	10
GRIGG Kal-B	3	10
Summer:		
GRIGG Proven Foliar	fl oz/1,000 ft <sup>2</sup>	L/Ha
GRIGG Gary's Green Ultra	6	20
GRIGG Tuff Turf or GRIGG A-O-K	3	10
GRIGG P-K Plus	6	20
GRIGG Manganese Combo	3	10
Applied in the "off" weeks:		
GRIGG Proven Foliar	fl oz/1,000 ft <sup>2</sup>	L/Ha
GRIGG Rhizonify	6	20
GRIGG Kelplex	2	6
Late Fall/Winter: mid-Octo every 7-10 days	ber to mid-Nove	mber
GRIGG Proven Foliar	fl oz/1,000 ft²	L/Ha
GRIGG Gary's Green Ultra	6	20
GRIGG Tuff Turf	6	20
GRIGG Rhizonify	6	20

## **NEW ENGLAND**

## **Nutrition Programs**

## **Newer Generation Creeping Bentgrass Swards**

Spring Green Up/Root Generation: (after 2nd mowing)		
GRIGG Proven Foliar	fl oz/1,000 ft <sup>2</sup>	L/Ha
GRIGG Nutra Green	6	20
GRIGG Gary's Green Ultra	6	20
If using in combination with *Trimmit add:		
GRIGG Proven Foliar	fl oz/1,000 ft <sup>2</sup>	L/Ha
GRIGG Micro Burst	2	6

5 days prior to aeration:		
GRIGG GreenSpec	lbs/1,000 ft <sup>2</sup>	g/m²
GRIGG Seven Iron	10	40

Mid-Spring and into Summer:		
GRIGG Proven Foliar	fl oz/1,000 ft <sup>2</sup>	L/Ha
GRIGG Nutra Green	6	20
(P for energy transfer)		
GRIGG P-K Plus	6	20
GRIGG Kal-B	4	15
GRIGG Gary's Green Ultra	12	40

Early Fall:		
GRIGG GreenSpec	lbs/1,000 ft <sup>2</sup>	g/m²
GRIGG Turf Rally	6.25	25
(1 lb N)		
GRIGG Proven Foliar	fl oz/1,000 ft²	L/Ha
GRIGG Tuff Turf	6	20
GRIGG Nutra Green	6	20
GRIGG P-K Plus	6	20
GRIGG Gary's Green Ultra	9	30

Late Fall until just prior to dormancy:		
GRIGG Proven Foliar	fl oz/1,000 ft <sup>2</sup>	L/Ha
GRIGG Tuff Turf	6	20
GRIGG Gary's Green Ultra	6	20

<sup>\*</sup>Trimmit" is a registered trademark of the Syngenta® Corporation

## **Annual Bluegrass and Creeping Bentgrass Swards**

Spring green up/root gene (after 2nd mowing)	ration:		
GRIGG Proven Foliar	fl oz/1,000 ft <sup>2</sup>	L/Ha	
GRIGG Nutra Green	6	20	
GRIGG Gary's Green Ultra	9	30	
If using in combination with suppression or Primo add:	h PGR's for seed	head	
GRIGG Proven Foliar	fl oz/1,000 ft <sup>2</sup>	L/Ha	
GRIGG Micro Burst	1	3	
5 days prior to aeration:			
GRIGG GreenSpec	lbs/1,000 ft <sup>2</sup>	g/m²	
GRIGG Seven Iron	10	40	
Mid-Spring and into Summer:			
GRIGG Proven Foliar	fl oz/1,000 ft <sup>2</sup>	L/Ha	
GRIGG Proven Foliar GRIGG Tuff Turf	4	<b>L/Ha</b> 15	
GRIGG Tuff Turf	4		
GRIGG Tuff Turf	4	15	
GRIGG Tuff Turf GRIGG P-K Plus	4 6	15 20	
GRIGG Tuff Turf GRIGG P-K Plus GRIGG Gary's Green Ultra	4 6 12 fl oz/1,000 ft <sup>2</sup>	15 20 40	
GRIGG Tuff Turf GRIGG P-K Plus GRIGG Gary's Green Ultra GRIGG Proven Foliar GRIGG Tuff Turf	4 6 12 fl oz/1,000 ft² 6	15 20 40 <b>L/Ha</b>	
GRIGG Tuff Turf GRIGG P-K Plus GRIGG Gary's Green Ultra GRIGG Proven Foliar GRIGG Tuff Turf GRIGG Nutra Green GRIGG P-K Plus	4 6 12 fl oz/1,000 ft <sup>2</sup> 6 6	15 20 40 <b>L/Ha</b> 20	
GRIGG Tuff Turf GRIGG P-K Plus GRIGG Gary's Green Ultra GRIGG Proven Foliar GRIGG Tuff Turf GRIGG Nutra Green	4 6 12 fl oz/1,000 ft <sup>2</sup> 6 6	15 20 40 <b>L/Ha</b> 20 20	
GRIGG Tuff Turf GRIGG P-K Plus GRIGG Gary's Green Ultra GRIGG Proven Foliar GRIGG Tuff Turf GRIGG Nutra Green GRIGG P-K Plus	4 6 12 fl oz/1,000 ft <sup>2</sup> 6 6 6	15 20 40 <b>L/Ha</b> 20 20	
GRIGG Tuff Turf GRIGG P-K Plus GRIGG Gary's Green Ultra GRIGG Proven Foliar GRIGG Tuff Turf GRIGG Nutra Green GRIGG P-K Plus GRIGG Gary's Green Ultra	4 6 12 fl oz/1,000 ft <sup>2</sup> 6 6 6	15 20 40 <b>L/Ha</b> 20 20	
GRIGG Tuff Turf GRIGG P-K Plus GRIGG Gary's Green Ultra GRIGG Proven Foliar GRIGG Tuff Turf GRIGG Nutra Green GRIGG P-K Plus GRIGG Gary's Green Ultra Late Fall until just prior to	4 6 12 fl oz/1,000 ft² 6 6 6 9	15 20 40 <b>L/Ha</b> 20 20 20 30	

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

## NO PHOSPHOROUS SOLUTIONS

## **Nutrition Program**

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.

Spring:		
GRIGG Proven Foliar	fl oz/1,000 ft <sup>2</sup>	L/Ha
GRIGG Ultraplex	4	15
GRIGG Suprema	12	40
GRIGG A-O-K	6	20
GRIGG Manganese Combo	2	6

Summer:			
GRIGG Proven Foliar	fl oz/1,000 ft <sup>2</sup>	L/Ha	
GRIGG Ultraplex	4	15	
GRIGG Suprema	9	30	
GRIGG Fairphyte	3	10	
GRIGG Kal-B	4	12	

Monthly		
GRIGG GreenSpec	lbs/1,000 ft <sup>2</sup>	g/m²
GRIGG CK-Balance	3	15

Fall:		
GRIGG Proven Foliar	fl oz/1,000 ft <sup>2</sup>	L/Ha
GRIGG Ultraplex	4	15
GRIGG Suprema	12	40
GRIGG Tuff Turf	6	20

## PACIFIC NORTHWEST/UK, IRELAND

#### **Nutrition Program**

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.

Spring - Feb-Apr: every 10-	21 days	
GRIGG Proven Foliar	fl oz/1,000 ft²	L/Ha
GRIGG Gary's Green Ultra	9	30
GRIGG Nutra Green	6	20
GRIGG P-K Plus	6	20
At Aeration:		
GRIGG GreenSpec	lbs/1,000 ft <sup>2</sup>	g/m²
GRIGG Seven Iron	10	40
Summer - May-Sept: every	10-21 days	
GRIGG Proven Foliar	fl oz/1,000 ft²	L/Ha
GRIGG Gary's Green Ultra	9	30
GRIGG P-K Plus	6	20
GRIGG Kal-B	3	10
GRIGG Micro Burst	1	4
Late May:		
Late May: GRIGG GreenSpec	lbs/1,000 ft <sup>2</sup>	g/m²
	<b>lbs/1,000 ft</b> <sup>2</sup>	<b>g/m²</b> 45
GRIGG GreenSpec	12	
GRIGG GreenSpec GRIGG Seven iron	12	
GRIGG GreenSpec GRIGG Seven iron Fall - Sept-Nov: every 14-2	12 <b>1 days</b>	45
GRIGG GreenSpec GRIGG Seven iron Fall - Sept-Nov: every 14-2 GRIGG Proven Foliar	12 1 days fl oz/1,000 ft²	45 <b>L/Ha</b>
GRIGG GreenSpec GRIGG Seven iron Fall - Sept-Nov: every 14-2 GRIGG Proven Foliar GRIGG Gary's Green Ultra	12 1 days fl oz/1,000 ft² 9	45 <b>L/Ha</b> 30
GRIGG GreenSpec GRIGG Seven iron Fall - Sept-Nov: every 14-2 GRIGG Proven Foliar GRIGG Gary's Green Ultra GRIGG P-K Plus	12  1 days  fl oz/1,000 ft²  9  6	45 <b>L/Ha</b> 30 20
GRIGG GreenSpec GRIGG Seven iron Fall - Sept-Nov: every 14-2 GRIGG Proven Foliar GRIGG Gary's Green Ultra GRIGG P-K Plus GRIGG Tuff Turf	12  1 days  fl oz/1,000 ft²  9  6	45 <b>L/Ha</b> 30 20
GRIGG GreenSpec GRIGG Seven iron Fall - Sept-Nov: every 14-2 GRIGG Proven Foliar GRIGG Gary's Green Ultra GRIGG P-K Plus GRIGG Tuff Turf At aeration:	12  1 days  fl oz/1,000 ft²  9  6  3	45 <b>L/Ha</b> 30 20 10
GRIGG GreenSpec GRIGG Seven iron Fall - Sept-Nov: every 14-2 GRIGG Proven Foliar GRIGG Gary's Green Ultra GRIGG P-K Plus GRIGG Tuff Turf At aeration: GRIGG GreenSpec	12  1 days  fl oz/1,000 ft²  9  6  3  lbs/1,000 ft²	45  L/Ha 30 20 10
GRIGG GreenSpec GRIGG Seven iron Fall - Sept-Nov: every 14-2 GRIGG Proven Foliar GRIGG Gary's Green Ultra GRIGG P-K Plus GRIGG Tuff Turf At aeration: GRIGG GreenSpec GRIGG Seven Iron	12  1 days  fl oz/1,000 ft²  9  6  3  lbs/1,000 ft²	45  L/Ha 30 20 10

## **ROCKY MOUNTAIN REGION**

## **Nutrition Program**

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.

Spring: every 7-10 days 2-4 apps depending on turf cond	ditions:	
GRIGG Proven Foliar	fl oz/1,000 ft <sup>2</sup>	L/Ha
GRIGG Gary's Green Ultra	6-12	20-40
GRIGG Nutra Green	6-12	20-40
Late Spring: every 10-14 day 2-3 apps:	'S	
<b>GRIGG Proven Foliar</b>	fl oz/1,000 ft <sup>2</sup>	L/Ha
GRIGG Gary's Green	9	30
GRIGG Nutra Green	6	20
GRIGG Manganese Combo	2	6
At aeration: every 7-10 days:	:	
GRIGG GreenSpec	lbs/1,000 ft <sup>2</sup>	g/m²
GRIGG Seven Iron	10	40
(0.7 lb N)		
Summer: every 10-14 days:		
<b>GRIGG Proven Foliar</b>	fl oz/1,000 ft <sup>2</sup>	L/Ha
GRIGG Gary's Green Ultra	9	30
GRIGG P-K Plus	6	20
GRIGG Kal-B	3	10
Late June:		
GRIGG GreenSpec	lbs/1,000 ft <sup>2</sup>	g/m²
GRIGG Seven Iron	7-10	30-40
Fall: every 14 days:		
GRIGG Proven Foliar	fl oz/1,000 ft <sup>2</sup>	L/Ha
GRIGG Ultraplex	6	20
	3	10
GRIGG Tuff Turf		
GRIGG Tuff Turf GRIGG P-K Plus	3	20
	3	20 6
GRIGG P-K Plus	•••••	
GRIGG P-K Plus GRIGG Manganese Combo	•••••	

## **SPORTS TURF**

## **Nutrition Program**

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  $[g/m^2]$ .

Spring foliar starter: ever	y 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	e: everv 7-10 davs	

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 Kal-B	4-6	15-20

Warm season maintenand	ce: 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		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

## **TOURNAMENT**

#### Proven Foliar Nutrition Program

#### **Shorter Grass, Shorter Roots**

To produce faster greens during tournament preparation, turf is continually cut to lower heights. It is challenging to maintain tournament conditions, whether for a special event or year around. Superintendents must promote density and quality while producing fast greens.

As mowing heights are lowered, root growth decreases and there is less leaf surface to photosynthesize. Current tournament mowing heights are typically below 1/8 inch [3-4 mm] on both cool and warm season turf. During a special event, greens are often double cut in the morning and cut again in the afternoon or evening.

#### **Maintaining Nutrient Level and Health**

In an ordinary situation a turf plant will store half of all the carbohydrates produced in the root and utilize half for sustaining life functions.

Today's putting green mowed at 1/8 inch [3 mm] or less, regardless of season, simply cannot photosynthesize enough to ensure adequate carbohydrate reserves and storage. The turf is trying to survive and needs to utilize all the carbohydrates available to do it. Therefore the plant does a poor job of storing any carbohydrate reserve in the root.

Good management practices will help turf survive and thrive even when it is being mowed so low. One important practice is maintaining the nutrient level of the plant tissue.

In addition to C, H and  $O_2$ , which are provided by water and carbon dioxide, there are 13 essential nutrients required by all higher plants. Plant health, growth, and development are dependent on all of these elements being present at optimum concentrations. Many scientists believe that these 13 elements are critical to plant growth and survival during periods of stress.

To initiate your tournament recommended products a		
<b>GRIGG Proven Foliar</b>	fl oz/1,000 ft <sup>2</sup>	L/Ha
GRIGG Gary's Green	6	20
GRIGG Ultraplex	3	10
GRIGG Kal-B	3	10
Plus, every other spray:		
GRIGG P-K Plus	6	20

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.

GRIGG chelated straight nutrients or any other Proven Foliar nutrients can be added to this program as indicated by soil and tissue test results. We also recommend the addition of GRIGG GreenSpec fertilizer in the spring and again in the fall as determined by soil testing to complete a total program.

## **TRANSITION ZONE**

#### Bentgrass Nutrition Program

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.

Coming out of winter: Mar-Apr every 7-10 days		
GRIGG Proven Foliar	fl oz/1,000 ft <sup>2</sup>	L/Ha
GRIGG Nutra Green	3	10
GRIGG Kal-B	3	10
GRIGG Ultraplex	3	10
One week prior to aeration:	Apr - May	
<b>GRIGG Proven Foliar</b>	fl oz/1,000 ft <sup>2</sup>	L/Ha
GRIGG Gary's Green	9	30
GRIGG Ultraplex	3	10
GRIGG Kal-B	6	20
At aeration: Apr-May		
GRIGG GreenSpec	lbs/1,000 ft <sup>2</sup>	g/m²
GRIGG Seven Iron	10	40
One week after aeration: Apr	-May	
GRIGG Proven Foliar	fl oz/1,000 ft <sup>2</sup>	L/Ha
GRIGG Gary's Green	9	30
Late Spring/Summer: Jun-O	ct every 10 days	
GRIGG Proven Foliar	fl oz/1,000 ft <sup>2</sup>	L/Ha
GRIGG Gary's Green	6	20
GRIGG P-K Plus	3	10
	•	
GRIGG Tuff Turf	3	10
GRIGG Tuff Turf GRIGG Manganese Combo	3 2	10 6
•••••	••••••••••••	
GRIGG Manganese Combo	2	6
GRIGG Manganese Combo GRIGG Kelplex	2	6
GRIGG Manganese Combo GRIGG Kelplex Fall: Oct-Nov	2 1	6 3
GRIGG Manganese Combo GRIGG Kelplex Fall: Oct-Nov GRIGG Proven Foliar GRIGG Tuff Turf or	2 1 fl oz/1,000 ft²	6 3 <b>L/Ha</b>
GRIGG Manganese Combo GRIGG Kelplex Fall: Oct-Nov GRIGG Proven Foliar GRIGG Tuff Turf or GRIGG A-O-K	2 1 fl oz/1,000 ft <sup>2</sup> 3	6 3 <b>L/Ha</b> 10
GRIGG Manganese Combo GRIGG Kelplex Fall: Oct-Nov GRIGG Proven Foliar GRIGG Tuff Turf or GRIGG A-O-K GRIGG Nutra Green	2 1 fl oz/1,000 ft <sup>2</sup> 3	6 3 <b>L/Ha</b> 10
GRIGG Manganese Combo GRIGG Kelplex Fall: Oct-Nov GRIGG Proven Foliar GRIGG Tuff Turf or GRIGG A-O-K GRIGG Nutra Green GRIGG Ultraplex	2 1 fl oz/1,000 ft <sup>2</sup> 3 3	6 3 <b>L/Ha</b> 10 10
GRIGG Manganese Combo GRIGG Kelplex Fall: Oct-Nov GRIGG Proven Foliar GRIGG Tuff Turf or GRIGG A-O-K GRIGG Nutra Green GRIGG Ultraplex GRIGG Kal-B	2 1 fl oz/1,000 ft <sup>2</sup> 3 3	6 3 <b>L/Ha</b> 10 10
GRIGG Manganese Combo GRIGG Kelplex Fall: Oct-Nov GRIGG Proven Foliar GRIGG Tuff Turf or GRIGG A-O-K GRIGG Nutra Green GRIGG Ultraplex GRIGG Kal-B Fall:	2 1 fl oz/1,000 ft <sup>2</sup> 3 3 3	6 3 L/Ha 10 10 10
GRIGG Manganese Combo GRIGG Kelplex Fall: Oct-Nov GRIGG Proven Foliar GRIGG Tuff Turf or GRIGG A-O-K GRIGG Nutra Green GRIGG Ultraplex GRIGG Kal-B Fall: GRIGG GreenSpec	2 1 fl oz/1,000 ft <sup>2</sup> 3 3 3 3 Ibs/1,000 ft <sup>2</sup> 10	6 3 L/Ha 10 10 10 10 9/m <sup>2</sup> 40
GRIGG Manganese Combo GRIGG Kelplex Fall: Oct-Nov GRIGG Proven Foliar GRIGG Tuff Turf or GRIGG A-O-K GRIGG Nutra Green GRIGG Ultraplex GRIGG Kal-B Fall: GRIGG GreenSpec GRIGG Seven Iron	2 1 fl oz/1,000 ft <sup>2</sup> 3 3 3 3 Ibs/1,000 ft <sup>2</sup> 10	6 3 L/Ha 10 10 10 10 9/m <sup>2</sup> 40
GRIGG Manganese Combo GRIGG Kelplex Fall: Oct-Nov GRIGG Proven Foliar GRIGG Tuff Turf or GRIGG A-O-K GRIGG Nutra Green GRIGG Ultraplex GRIGG Kal-B Fall: GRIGG GreenSpec GRIGG Seven Iron Late Fall/Winter: Dec-Feb (v	2 1 fl oz/1,000 ft² 3 3 3 3 Ibs/1,000 ft² 10 veather permitti	6 3 L/Ha 10 10 10 10 40

# AGRONOMISTS AND TECHNICAL SUPPORT

## **Brian Haschemeyer Director of Discovery and Innovation**

Brian oversees all new formulation research, development and field testing at BRANDT. He oversees formulation development and quality control testing at BRANDT's seven laboratories and manages a team of research agronomists. Brian has nearly two decades of formulation experience and holds a B.S. degree in Chemistry from Western Illinois University.

#### Gary Grigg, CGCS, MG Agronomist

GRIGG co-founder, Gary Grigg, lead the company's product development and research for over 25 years. He continues to play a key role in customer agronomic education, support and consulting. Gary has over 50 years of turf and golf course management experience. He has a B.S. degree in Agriculture and Entomology and an M.S. degree in Agronomy.

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GRIGG is dedicated to providing customers with the highest quality turf nutrition products in the industry, backed by plant nutrition science and research.

The company has conducted hundreds of university and independent turf product trials, with a focus on new product field testing. This research, along with plant science, drives all GRIGG fertility and IPM agronomic solutions, product recommendations and nutrition program.

To see a full list of GRIGG research trials and reports, visit grigg.co.



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