



**GRIGG**<sup>®</sup>

Research Driven,  
Proven Results<sup>®</sup>



# 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.

## **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](http://brandt.co) and [grigg.co](http://grigg.co)*

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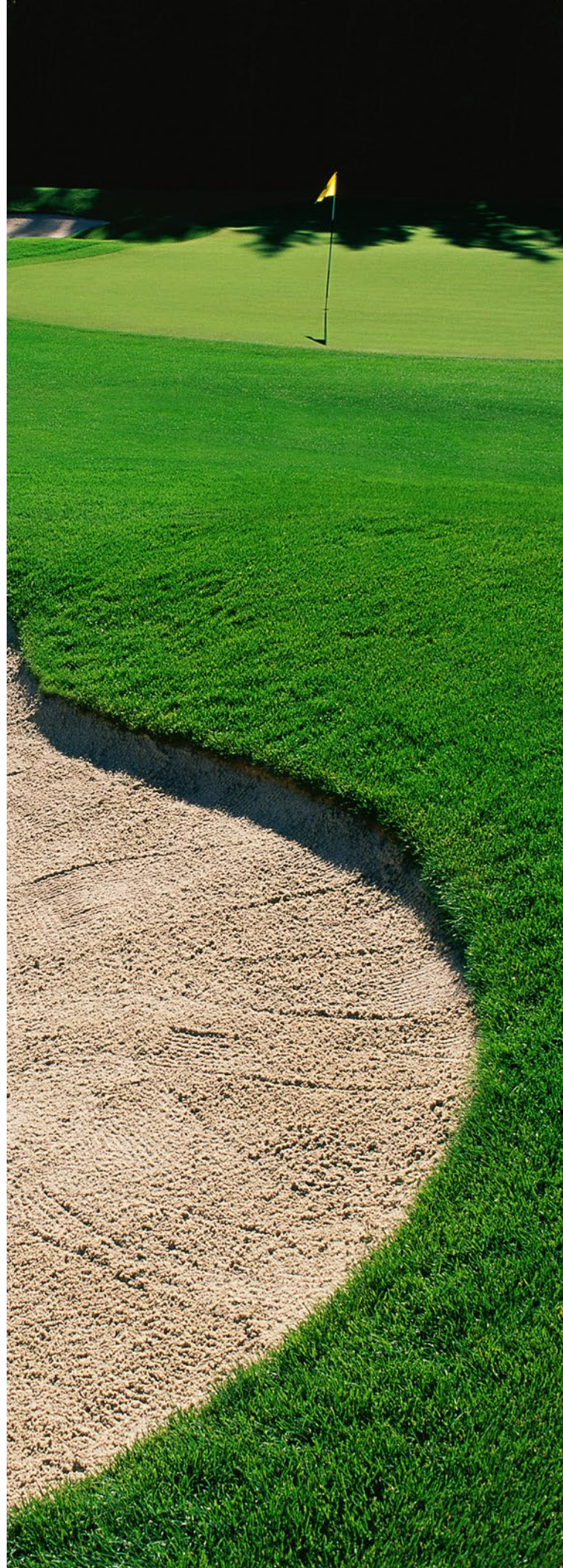
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**GRIGG**

# 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.

# GRIGG 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) . . . . .	5.00%
1.00% Nitrate nitrogen	
4.00% Urea nitrogen	
Soluble Potash (K <sub>2</sub> O) . . . . .	1.00%
Boron (B) . . . . .	0.05%
Manganese (Mn) . . . . .	0.75%
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.



## Proven Foliar Nutrients

# GRIGG 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) . . . . .	4.00%
Iron (Fe) . . . . .	0.20%
0.20% Water soluble iron	
Manganese (Mn) . . . . .	0.05%
0.05% Water soluble manganese	
Zinc (Zn) . . . . .	0.05%
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.

# GRIGG 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) . . . . .	18.00%
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) . . . . .	4.00%
Magnesium (Mg) . . . . .	0.50%
0.50% Water soluble magnesium	
Copper (Cu) . . . . .	0.12%
0.12% Water soluble copper	
Iron (Fe) . . . . .	1.00%
1.00% Water soluble iron	
Manganese (Mn) . . . . .	0.10%
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.



# GRIGG 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.

### 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.

### Guaranteed Analysis

Total Nitrogen (N)	14.00%
1.50% Ammoniacal nitrogen	
1.25% Nitrate nitrogen	
11.25% Urea nitrogen	
Available Phosphate (P <sub>2</sub> O <sub>5</sub> )	2.00%
Soluble Potash (K <sub>2</sub> O)	3.00%
Magnesium (Mg)	0.50%
0.50% Water soluble magnesium	
Boron (B)	0.02%
Copper (Cu)	0.12%
0.12% Water soluble copper	
Iron (Fe)	1.40%
1.40% Water soluble iron	
Manganese (Mn)	0.20%
0.20% Water soluble manganese	
Zinc (Zn)	0.20%
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*



# 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 sand-based 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) . . . . .	4.00%
Calcium (Ca) . . . . .	10.00%
10.00% Water soluble calcium	
Boron (B) . . . . .	0.05%

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> ) .....	2.0%
Soluble Potash (K <sub>2</sub> O) .....	2.0%
Iron (Fe) .....	0.1%
0.1% Water soluble iron	

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



# GRIGG 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%
1.2% Water soluble magnesium	
Copper (Cu) . . . . .	0.4%
0.4% Water soluble copper	
Manganese (Mn) . . . . .	5.0%
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

Total Nitrogen (N) .....3.0%  
3.0% Urea nitrogen

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) . . . . .	1.00%
Boron (B) . . . . .	0.04%
Copper (Cu) . . . . .	0.05%
0.05% Water soluble copper	
Iron (Fe) . . . . .	3.40%
3.40% Water soluble iron	
Manganese (Mn) . . . . .	2.40%
2.40% Water soluble manganese	
Molybdenum (Mo) . . . . .	0.01%
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.



# GRIGG 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) . . . . .	5.00%
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) . . . . .	5.00%
Magnesium (Mg) . . . . .	1.00%
1.00% Water soluble magnesium	
Boron (B) . . . . .	0.12%
Copper (Cu) . . . . .	0.10%
0.10% Water soluble copper	
Iron (Fe) . . . . .	1.00%
1.00% Water soluble iron	
Manganese (Mn) . . . . .	0.50%
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.



# GRIGG 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.

## 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) . . . . .	3.00%
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) . . . . .	0.02%
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](http://grigg.co) to view the complete label.

# GRIGG 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) .....	1.0%
0.75% Nitrate nitrogen	
0.25% Urea nitrogen	
Soluble Potash (K <sub>2</sub> O) .....	14.0%
Magnesium (Mg) .....	0.5%
0.5% Water soluble magnesium	
Iron (Fe) .....	0.5%
0.5% Water soluble iron	

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



# GRIGG 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) . . . . .	3.00%
Magnesium (Mg) . . . . .	0.50%
0.50% Water soluble magnesium	
Boron (B) . . . . .	0.05%
Copper (Cu) . . . . .	0.05%
0.05% Water soluble copper	
Iron (Fe) . . . . .	1.95%
1.95% Water soluble iron	
Manganese (Mn) . . . . .	0.40%
0.40% Water soluble manganese	
Zinc (Zn) . . . . .	0.40%
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*



# GRIGG 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

Total Nitrogen (N) ..... 10.00%  
1.00% Ammoniacal nitrogen  
9.00% Urea nitrogen

Derived from ammonium sulfate and urea.



**GRIGG**

# **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

# GRIGG 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.



# GRIGG 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.

## 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.

**Establishment:** As a pre-plant fertilizer, incorporate 14 lb per 1,000 sq ft or 610 lb per acre [7 kg per 100

### Guaranteed Analysis

Total Nitrogen (N) . . . . .	7.0%
1.4% Ammoniacal nitrogen	
4.6% Urea nitrogen	
1.0% Water insoluble nitrogen	
Available Phosphate (P <sub>2</sub> O <sub>5</sub> ) . . . . .	7.0%
Soluble Potash (K <sub>2</sub> O) . . . . .	7.0%
Calcium (Ca) . . . . .	3.0%
Sulfur (S) . . . . .	7.0%
7.0% Combined sulfur	
Iron (Fe) . . . . .	7.0%
2.3% Water soluble iron	
Manganese (Mn) . . . . .	1.5%
1.3% Water soluble manganese	
Zinc (Zn) . . . . .	0.2%
0.05% Water soluble zinc	

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

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/](http://grigg.co/greenspec-granular/)

# GRIGG 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.

## 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 turfgrass 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/](http://grigg.co/greenspec-granular/)

## Guaranteed Analysis

Total Nitrogen (N) . . . . .	16.0%
2.9% Ammoniacal nitrogen	
10.2% Urea nitrogen	
1.1% Other water soluble nitrogen	
1.8% Water insoluble nitrogen	
Available Phosphate (P <sub>2</sub> O <sub>5</sub> ) . . . . .	4.0%
Soluble Potash (K <sub>2</sub> O) . . . . .	8.0%
Calcium (Ca) . . . . .	2.0%
Sulfur (S) . . . . .	6.0%
6.0% Combined sulfur	
Iron (Fe) . . . . .	3.0%
0.03% Water soluble iron	
Manganese (Mn) . . . . .	0.2%
0.02% Water soluble manganese	
Zinc (Zn) . . . . .	0.1%
0.001% Water soluble zinc	

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



# GRIGG BI-MONTHLY SUCCESS KIT

## 3 Month Kit

### 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	3oz/1000 ft <sup>2</sup>	9	2
GRIGG Gary's Green	9oz/1000 ft <sup>2</sup>	27	6
GRIGG Tuff Turf	3oz/1000 ft <sup>2</sup>	9	2
<b>Total Cases - Application 1</b>			<b>12</b>

Application 2			
Product	Rate	Gallons	Cases
GRIGG Ultraplex	3oz/1000 ft <sup>2</sup>	9	2
GRIGG® Advantage®	3oz/1000 ft <sup>2</sup>	9	2
BRANDT® Converge 18-3-6	3oz/1000 ft <sup>2</sup>	9	2
GRIGG P-K Plus	6oz/1000 ft <sup>2</sup>	18	4
<b>Total Cases - Application 2</b>			<b>10</b>

<b>Total Cases - Bi-Monthly Kit</b>	<b>22</b>
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GRIGG

# 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.

# 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 infrared light, which may improve turf quality and vigor. It is recommended for general use and the low application rate provides great value.

## \*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.

**\*For a darker turfgrass green, we suggest using GreenPig Ultra**

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

Proven Foliar Nutrients	Specific Gravity	lbs per 100 gal	pH	Nutrient Content												
				N	P <sub>2</sub> O <sub>5</sub>	K <sub>2</sub> O	B	Ca	Co	Cu	Fe	Mg	Mn	Mo	Zn	
GRIGG Advantage	1.160 lbs of Nutrient per gal:	9.7	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 Gary's Green	1.290 lbs of Nutrient per gal:	10.766	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 per gal:	10.682	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 per gal:	11.934	2.70	1.0% 0.193		2.0% 0.2387	0.16% 0.0191				0.13% 0.0155	4.0% 0.4774		1.0% 0.193		0.8% 0.095
GRIGG Kelpex	1.100 lbs of Nutrient per gal:	9.180	4.54	1.0% 0.0918	2.0% 0.1836	2.0% 0.1836						0.1% 0.01				
GRIGG Manganese Combo	1.350 lbs of Nutrient per gal:	11.266	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 per gal:	8.8	6-8	3.0% 0.264												
GRIGG Micro Burst	1.330 lbs of Nutrient per gal:	11.099	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 per gal:	11.433	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 per gal:	11.433	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 per gal:	12.268	1.50	8.0% 0.9814		4.0% 0.4907	0.05% 0.0061	10.0% 1.2268								
GRIGG Tuff Turf	1.310 lbs of Nutrient per gal:	10.932	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 per gal:	10.682	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 per gal:	9.2	6-8	10.0% 0.920												

# 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](http://grigg.co) to find the latest program recommendations

# SPREADER SETTINGS

## GRIGG GREENSPEC Recommended Rates

### GRIGG Turf Rally 16-4-8

Spreader	FAIRWAY GRADE - 6.25 lbs per 1,000 ft <sup>2</sup>			GREENS GRADE - 3.12 lbs per 1,000 ft <sup>2</sup>		
	Ground Speed / MPH	Width of Coverage / FT	Setting	Ground Speed / MPH	Width of Coverage / FT	Setting
Scott R8	3	10	L12	3	10	I
Spyker / Best	3	9	5.1	3	9	3.7
Lesco	3	10	J or 22	3	10	E 12 or 13
Lely (1250)	4.5	34	6 1/4	4.5	30	4 1/2
Accupro 2000	3	10	M12	3	10	J
Earthway	3	10	19 12	3	10	14 12
Vicon (O3 series)	4.5	28	38	4.5	22	20

### GRIGG Seven Iron 7-7-7

Spreader	FAIRWAY GRADE - 6.25 lbs per 1,000 ft <sup>2</sup>			GREENS GRADE - 8 lbs per 1,000 ft <sup>2</sup>		
	Ground Speed / MPH	Width of Coverage / FT	Setting	Ground Speed / MPH	Width of Coverage / FT	Setting
Scott R8	3	10	O	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	6 3/4	4.5	30	5 3/4
Accupro 2000	3	10	P	3	10	L 3/4
Earthway	3	10	23 12	3	10	18
Vicon (O3 series)	4.5	24	39	4.5	22	30

Water in thoroughly after application to help speed up breakdown.

These suggested settings are only intended to aid your own calculations by providing a starting point; They are NOT intended to replace your own calibration. Please calibrate your spreader before applying product.

# 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.

These products may only be sold in states where registered or where registration is not required. For information regarding product availability in your area, please contact Brandt Consolidated, Inc.

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