



Research Driven,
Proven Results™



CANADA

**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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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 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

Turf (such as athletic fields, greens, tees, and fairways):

Apply only to actively growing turf. Use 95-190 millilitres per 100 square metres in sufficient water for thorough coverage (typically 10 litres). 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 4-7.5 litres in 380 litres of water (or 140-300 millilitres per 4 litres of water) and spray foliage to drip. For best results, apply on a regular schedule every other week.

Guaranteed Analysis

Total Nitrogen (N)	5.00%
1.00% Nitrate nitrogen	
4.00% Urea nitrogen	
Soluble Potash (K ₂ O)	1.00%
Boron (B) (actual)	0.05%
Manganese (Mn) (actual)	0.75%
0.75% Water soluble manganese (actual)	
Molybdenum (Mo) (actual)	0.001%
Zinc (Zn) (actual)	0.75%
0.75% Water soluble zinc (actual)	

Active ingredients derived from Registration Numbers 2024096M, 2024112M, 2024052M, 2024094M, potassium nitrate and urea Fertilizers Act.

CAUTION: This fertilizer contains boron, manganese, molybdenum and zinc and should be used only as recommended. It may prove harmful when misused.

Optimum rate of application will vary depending on soil properties (such as pH, organic matter content, texture), weather conditions, time of year, general plant species and health. This product must only be used on the basis of a soil and/or tissue analysis.



Proven Foliar Nutrients

GRIGG 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 95-190 millilitres per 100 square metres or 9.4-18.5 litres per hectare (4-7.5 litres per acre) as needed every 14 days.

Warm Season Grasses: Apply 64-190 millilitres per 100 square metres or 4.5-18.5 litres per hectare (2-7.5 litres per acre) 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)	2.0%
2.0% Urea nitrogen	
Soluble Potash (K ₂ O)	24.0%

Derived from urea and potassium hydroxide.



GRIGG A-O-K Plus 1-0-25

GRIGG A-O-K Plus is a 25% soluble potassium hydroxide. 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

To prevent or correct nutrient deficiencies, apply GRIGG A-O-K PLUS 1-0-25 as a foliar spray early in the morning or late afternoon. Allow 3-6 hours for drying time before irrigation. Best to apply after mowing.

Cool or Warm Season Grasses: Apply 95-125 millilitres per 100 square metres or 9-12 litres per hectare (4-4.75 litres per acre) 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. This product must only be used on the basis of a soil and/or tissue analysis.

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

Guaranteed Analysis

Total Nitrogen	1.0%
1.0% Urea nitrogen	
Soluble Potash (K_2O)	25.0%

Derived from urea and potassium sulfate.



GRIGG CARBOPLEX

6-4-4

GRIGG Carboplex contains three sources of nitrogen, phosphate, potassium, 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

To prevent or correct nutrient deficiencies, apply GRIGG CARBOPLEX 6-4-4 as a foliar spray early in the morning or late afternoon. Allow 3-6 hours for drying time before irrigation. Best to apply after mowing. For soil applications, apply when temperatures in the root zone exceed 50°F and environmental conditions favor turf growth.

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

Tees, Greens: Apply 190-380 millilitres per 100 square metres or 18.5-37.5 litres per hectare (7.5-15 litres per acre).

Fairways, Sports Field: Apply 285-380 millilitres per 100 square metres or 28-37.5 litres per hectare (11.5-15 litres per acre).

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

Tees, Greens: Apply 285-380 millilitres per 100 square metres or 28-37.5 litres per hectare (11.5-15 litres per acre).

Fairways, Sports Fields: Apply 380-475 millilitres per 100 square metres or 37.5-47 litres per hectare (15-19 litres per acre).

Guaranteed Analysis

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

Active ingredients derived from Registration Numbers 2024100M, 2024112M, 2024094M, monoammonium phosphate, potassium nitrate and urea Fertilizers Act

CAUTION: This fertilizer contains iron, manganese and zinc and should be used only as recommended. It may prove harmful when misused.

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. This product must only be used on the basis of a soil and/or tissue analysis.

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

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

To prevent or correct nutrient deficiencies, apply GRIGG GARY'S GREEN 18-3-4 as a foliar spray early in the morning or late afternoon. Allow 3-6 hours for drying time before irrigation. Best to apply after mowing.

Cool Season Grasses: Apply 190-285 millilitres per 100 square metres or 18.5-28 litres per hectare (7.5-11.5 litres per acre) as needed every 7-14 days.

Warm Season Grasses: Apply 285-380 millilitres per 100 square metres or 28-37.5 litres per hectare (11.5-15 litres per acre) as needed every 7-14 days.

CAUTION: This fertilizer contains copper, iron, manganese and zinc and should be used only as recommended. It may prove harmful when misused.

Make frequent applications at lower rates, or apply higher rates at times of greater plant demand.

Proven Foliar Nutrients

Guaranteed Analysis

Total Nitrogen (N)	18.00%
2.00% Ammoniacal nitrogen	
1.50% Nitrate nitrogen	
14.50% Urea nitrogen	
Available Phosphoric Acid (P ₂ O ₅)	3.00%
Soluble Potash (K ₂ O)	4.00%
Magnesium (Mg)	0.50%
0.50% Water soluble magnesium	
Copper (Cu) (actual)	0.12%
0.12% Water soluble copper (actual)	
Iron (Fe) (actual)	1.00%
1.00% Water soluble iron (actual)	
Manganese (Mn) (actual)	0.10%
0.10% Water soluble manganese (actual)	
Zinc (Zn) (actual)	0.10%
0.10% Water soluble zinc (actual)	

Active ingredients derived from Registration Numbers 2024099M, 20240100M, 2024112M, 2024094M, urea ammonium nitrate, monoammonium phosphate, urea and potassium citrate Fertilizers Act.

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. This product must only be used on the basis of a soil and/or tissue analysis.

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



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

To prevent or correct nutrient deficiencies, apply GRIGG GARY'S GREEN 18-3-4 as a foliar spray early in the morning or late afternoon. Allow 3-6 hours for drying time before irrigation. Best to apply after mowing.

Cool Season Grasses: Apply 190-285 millilitres per 100 square metres or 18.5-28 litres per hectare (7.5-11.5 litres per acre) as needed every 7-14 days.

Warm Season Grasses: Apply 285-380 millilitres per 100 square metres or 28-37.5 litres per hectare (11.5-15 litres per acre) as needed every 7-14 days.

CAUTION: This fertilizer contains magnesium, boron, copper, iron, manganese and zinc and should be used only as recommended. It may prove harmful when misused.

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. This product must only be used on the basis of a soil and/or tissue analysis.

Guaranteed Analysis

Total Nitrogen (N)	14.00%
1.50% Ammoniacal nitrogen	
1.25% Nitrate nitrogen	
11.25% Urea nitrogen	
Available Phosphoric Acid (P_2O_5)	2.00%
Soluble Potash (K_2O)	3.00%
Magnesium (Mg)	0.50%
0.50% Water soluble magnesium	
Boron (B) (actual)	0.02%
Copper (Cu) (actual)	0.12%
0.12% Water soluble copper (actual)	
Iron (Fe) (actual)	1.40%
1.40% Water soluble iron (actual)	
Manganese (Mn) (actual)	0.20%
0.20% Water soluble manganese (actual)	
Zinc (Zn) (actual)	0.20%
0.20% Water soluble zinc (actual)	
<i>Yucca schidigera</i>	0.25%

Active ingredients derived from Registration Numbers 2024096M, 2024099M, 20240100M, 2024112M, 2024094M, urea ammonium nitrate, monoammonium phosphate, urea and potassium citrate Fertilizers Act.

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



GRIGG 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 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%
1.00% Urea nitrogen	
Soluble Potash (K ₂ O)	2.00%
Boron (B) (actual)	0.16%
Copper (Cu) (actual)	0.13%
0.13% Water soluble copper (actual)	
Iron (Fe) (actual)	4.00%
4.00% Water soluble iron (actual)	
Manganese (Mn) (actual)	1.00%
1.00% Water soluble manganese (actual)	
Zinc (Zn) (actual)	0.80%
0.80% Water soluble zinc (actual)	

Active ingredients derived from Registration Numbers 2024100M, 2024112M, 2024094M and urea Fertilizers Act.



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

To prevent or correct nutrient deficiencies, apply GRIGG KAL-B 8-0-4 as a foliar spray early in the morning or late afternoon. Allow 3-6 hours for drying time before irrigation. Best to apply after mowing.

Cool or Warm Season Grasses: Apply 95-190 millilitres per 100 square metres or 9.4-18.5 litres per hectare (4-7.5 litres per acre) as needed every 7-14 days.

CAUTION: This fertilizer contains boron and should be used only as recommended. It may prove harmful when misused.

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. This product must only be used on the basis of a soil and/or tissue analysis.

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

Guaranteed Analysis

Total Nitrogen (N)	8.00%
7.50% Nitrate nitrogen	
0.50% Urea nitrogen	
Soluble Potash (K_2O)	4.00%
Calcium (Ca)	10.00%
10.00% Water soluble calcium	
Boron (B) (actual)	0.05%

Active ingredients derived from Registration Numbers 2024096M, urea and potassium nitrate Fertilizers Act.



GRIGG KELPLEX

1-2-2

GRIGG Kelplex is a sophisticated formulation that contains three sources of nitrogen, phosphorus, potassium, 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

To prevent or correct nutrient deficiencies, apply GRIGG KELPLEX 1-2-2 as a foliar spray early in the morning or late afternoon. Allow 3-6 hours for drying time before irrigation. Best to apply after mowing.

Foliar Application: Apply 32-95 millilitres per 100 square metres or 2.3-9.4 litres per hectare (1-4 litres per acre) as needed every 7-14 days.

CAUTION: This fertilizer contains iron and should be used only as recommended. It may prove harmful when misused.

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. This product must only be used on the basis of a soil and/or tissue analysis.

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

Guaranteed Analysis

Total Nitrogen (N)	1.0%
0.4% Ammoniacal nitrogen	
0.1% Nitrate nitrogen	
0.5% Urea nitrogen	
Available Phosphoric Acid (P_2O_5)	2.0%
Soluble Potash (K_2O)	2.0%
Iron (Fe) (actual)	0.1%
0.1% Water soluble iron (actual)	
<i>Ascophyllum nodosum</i>	9.0%

Active ingredients derived from Registration Numbers 2024100M, urea, monoammonium phosphate and potassium nitrate Fertilizers Act.



Proven Foliar Nutrients

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 80-95 millilitres per 100 square metres every week OR 125-175 millilitres per 100 square metres every other week in sufficient water for thorough coverage (typically 10 litres). 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 4-10 litres in 380 litres of water (130-310 millilitres per 4 litres 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.

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.



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

For best results, apply GRIGG NUTRA GREEN 5-10-5 as a foliar spray early in the morning or late afternoon. Allow 3-6 hours for drying time before irrigation. Best to apply after mowing.

Cool Season Grasses: Apply 95-285 millilitres per 100 square metres or 9-28 litres per hectare (4-11 litres per acre) as needed every 7-14 days.

Warm Season Grasses: Apply 125-315 millilitres per 100 square metres or 12-33 litres per hectare (4.75-13.5 litres per acre) as needed every 7-14 days.

Ornamentals

Trees, Shrubs and Flowers: Mix 8-16 millilitres per litre of water (128x-64x dilution) and apply topically.

Greenhouse and Landscape: For soil applications, mix 16-31 millilitres per litre of water (64x-32x dilution) and drench into the soil.

Guaranteed Analysis

Total Nitrogen (N)	5.00%
2.70% Ammoniacal nitrogen	
0.80% Nitrate nitrogen	
1.50% Urea nitrogen	
Available Phosphoric Acid (P ₂ O ₅)	10.00%
Soluble Potash (K ₂ O)	5.00%
Magnesium (Mg)	1.00%
1.00% Water soluble magnesium	
Boron (B) (actual)	0.12%
Copper (Cu) (actual)	0.10%
0.10% Water soluble copper (actual)	
Iron (Fe) (actual)	1.00%
1.00% Water soluble iron (actual)	
Manganese (Mn) (actual)	0.50%
0.50% Water soluble manganese (actual)	
Zinc (Zn) (actual)	0.10%
0.10% Water soluble zinc (actual)	

Active ingredients derived from Registration Numbers 2024096M, 2024099M, 20240100M, 2024112M, 2024094M, monoammonium phosphate, urea ammonium nitrate, and potassium citrate Fertilizers Act.

CAUTION: This fertilizer contains boron, copper, iron, manganese and zinc and should be used only as recommended. It may prove harmful when misused.

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.

GRIGG P-K PLUS 3-5-17

GRIGG P-K PLUS is a multi-nutrient formulation that contains 17% potassium hydroxide, 5% phosphate, 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

To prevent or correct nutrient deficiencies, apply GRIGG P-K PLUS 3-5-17 as a foliar spray early in the morning or late afternoon. Allow 3-6 hours for drying time before irrigation. Best to apply after mowing.

Cool or Warm Season Grasses: Apply 190 millilitres per 100 square metres or 18.5 litres per hectare (7.5 litres per acre) every 14 days.

CAUTION: This fertilizer contains boron, cobalt and molybdenum and should be used only as recommended. It may prove harmful when misused.

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)	3.00%
0.90% Ammoniacal nitrogen	
2.10% Urea nitrogen	
Available Phosphoric Acid (P_2O_5)	5.00%
Soluble Potash (K_2O)	17.00%
Boron (B) (actual)	0.02%
Cobalt (Co) (actual)	0.01%
Molybdenum (Mo) (actual)	0.001%

Active ingredients derived from Registration Numbers 2024096M, 2024052M, monoammonium phosphate, urea and potassium phosphite Fertilizers Act.



GRIGG SUPREMA

12-0-12

GRIGG Suprema is a multi-nutrient formulation that contains 12% nitrogen, 12% potassium and 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

To prevent or correct nutrient deficiencies, apply GRIGG SUPREMA 12-0-12 as a foliar spray early in the morning or late afternoon. Allow 3-6 hours for drying time before irrigation. Best to apply after mowing.

Cool Season Grasses: Apply 125-380 millilitres per 100 square metres or 12-37.5 litres per hectare (4.75-15 litres per acre) as needed every 14 days.

Warm Season Grasses: Apply 190-475 millilitres per 100 square metres or 18.5-47 litres per hectare (7.5-19 litres per acre) as needed every 14 days

CAUTION: This fertilizer contains iron, manganese and zinc and should be used only as recommended. It may prove harmful when misused.

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)	12.0%
12.0% Urea nitrogen	
Soluble Potash (K ₂ O)	12.0%
Iron (Fe) (actual)	1.0%
1.0% Water soluble iron (actual)	
Manganese (Mn) (actual)	0.05%
0.05% Water soluble manganese (actual)	
Zinc (Zn) (actual)	0.05%
0.05% Water soluble zinc (actual)	

Active ingredients derived from Registration Numbers 2024100M, 2024112M, 2024094M, urea and potassium citrate Fertilizers Act



Proven Foliar Nutrients

GRIGG TUFF TURF

1-0-14

GRIGG Tuff Turf is a multi-nutrient formulation that contains 14% potassium, two forms of nitrogen, 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

To prevent or correct nutrient deficiencies, apply GRIGG TUFF TURF 1-0-14 as a foliar spray early in the morning or late afternoon. Allow 3-6 hours for drying time before irrigation. Best to apply after mowing

Cool or Warm Season Grasses:

Apply 95-190 millilitres per 100 square metres or 9.4-18.5 litres per hectare (4-7.5 litres per acre) as needed every 7-14 days.

CAUTION: This fertilizer contains iron and should be used only as recommended. It may prove harmful when misused.

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)	1.0%
0.75% Nitrate nitrogen	
0.25% Urea nitrogen	
Soluble Potash (K ₂ O)	14.0%
Magnesium (Mg)	0.5%
0.5% Water soluble magnesium	
Iron (Fe) (actual)	0.5%
0.5% Water soluble iron (actual)	

Active ingredients derived from Registration Numbers 2024100M, potassium nitrate and potassium citrate Fertilizers Act.



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, an antioxidant and signaling molecules.

Key Advantages

- Nutrients feed turf and support optimum growth and development
- 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

To prevent or correct nutrient deficiencies, apply GRIGG TURFTOPIA 5-0-5 as a foliar spray early in the morning or late afternoon. Allow 3-6 hours for drying time before irrigation. Best to apply after mowing.

Cool or Warm Season Grasses: Apply 95-190 millilitres per 100 square metres or 9.4-18.5 litres per hectare (4-7.5 litres per acre) as needed every 7-14 days.

CAUTION: This fertilizer contains manganese, molybdenum and zinc and should be used only as recommended. It may prove harmful when misused.

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_2O)	5.00%
Manganese (Mn) (actual)	0.20%
0.20% Water soluble manganese (actual)	
Molybdenum (Mo) (actual)	0.003%
Zinc (Zn) (actual)	0.20%
0.20% Water soluble zinc (actual)	

Active ingredients derived from Registration Numbers 2024112M, 2024052M, 2024094M, urea, potassium citrate and potassium acetate Fertilizers Act.



Proven Foliar Nutrients

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 yucca. 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

Application and Use

To prevent or correct nutrient deficiencies, apply GRIGG ULTRAPLEX 4-0-3 as a foliar spray early in the morning or late afternoon. Allow 3-6 hours for drying time before irrigation. Best to apply after mowing

Cool or Warm Season Grasses: Apply 95-190 millilitres per 100 square metres or 9.4-18.5 litres per hectare (4-7.5 litres per acre) as needed every 7-14 days.

CAUTION: This fertilizer contains boron, copper, iron, manganese and zinc and should be used only as recommended. It may prove harmful when misused.

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 ₂ O)	3.00%
Magnesium (Mg)	0.50%
0.50% Water soluble magnesium	
Boron (B) (actual)	0.05%
Copper (Cu) (actual)	0.05%
0.05% Water soluble copper (actual)	
Iron (Fe) (actual)	1.95%
1.95% Water soluble iron (actual)	
Manganese (Mn) (actual)	0.40%
0.40% Water soluble manganese (actual)	
Zinc (Zn) (actual)	0.40%
0.40% Water soluble zinc (actual)	
<i>Yucca schidigera</i>	0.80%

Active ingredients derived from Registration Numbers 2024096M, 2024099M, 20240100M, 2024112M, 2024094M, potassium nitrate and urea Fertilizers Act.



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

Turf (such as athletic fields, greens, tees, and fairways): Apply only to actively growing turf. Use 95-190 millilitres per 100 square metres in sufficient water for thorough coverage (typically 10 litres). 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 4-7.5 litres in 380 litres of water (140-300 millilitres per 4 litres of water) and spray foliage to drip. For best results, apply on a regular schedule every other week.

Optimum rate of application will vary depending on soil properties (such as pH, organic matter content, texture), weather conditions, time of year, general plant species and health. This product must only be used on the basis of a soil and/or tissue analysis.

Guaranteed Analysis

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

Derived from urea.



Proven Foliar Nutrients

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 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.

Guaranteed Analysis

Total Nitrogen (N)	7.0%
1.4% Ammoniacal nitrogen	
4.6% Urea nitrogen	
1.0% Water insoluble nitrogen	
Available Phosphate (P ₂ O ₅)	7.0%
Soluble Potash (K ₂ 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 sucate, manganese sulfate, manganese sucate, zinc sucate and kelp (*Ascophyllum nodosum*).

ALSO CONTAINS NON-PLANT FOOD INGREDIENTS:

2.5% Humic acids derived from Leonardite

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/

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/

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_2O_5)	4.0%
Soluble Potash (K_2O)	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 ²	9	2
GRIGG Kal-B	3oz/1000 ft ²	9	2
GRIGG Gary's Green	9oz/1000 ft ²	27	6
GRIGG Tuff Turf®	3oz/1000 ft ²	9	2
Total Cases			12

Application 2

Product	Rate	Gallons	Cases
GRIGG Ultraplex	3oz/1000 ft ²	9	2
GRIGG Turftopia	3oz/1000 ft ²	9	2
GRIGG Burley Green	3oz/1000 ft ²	9	2
GRIGG P-K Plus	6oz/1000 ft ²	8	4
Total Cases			10

Total Cases - Bi-Monthly Kit

22

GRIGG 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.

GRIGG IRON 12-0-0 12-0-0

GRIGG Iron 12-0-0 contains 12% nitrogen and 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

To prevent or correct nutrient deficiencies, apply GRIGG IRON 12-0-0 as a foliar spray early in the morning or late afternoon. Allow 3-6 hours for drying time before irrigation. Best to apply after mowing.

Cool Season Grasses: Apply 125-380 millilitres per 100 square metres or 12-37.5 litres per hectare (4.75-15 litres per acre) as needed every 7-14 days.

Warm Season Grasses: Apply 190-475 millilitres per 100 square metres or 18.5-47 litres per hectare (7.5-19 litres per acre) as needed every 7-14 days.

CAUTION: This fertilizer contains iron, manganese and zinc and should be used only as recommended. It may prove harmful when misused.

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	12.0%
12.0% Urea nitrogen	
Iron (Fe) (actual)	5.0%
5.0% Water soluble iron (actual)	
Manganese (Mn) (actual)	0.5%
0.5% Water soluble manganese (actual)	
Zinc (Zn) (actual)	0.5%
0.5% Water soluble zinc (actual)	

Active ingredients derived from Registration Numbers 2024100M, 2024112M, 2024094M and urea Fertilizers Act.



GRIGG 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

Application and Use

To prevent or correct nutrient deficiencies, apply GRIGG BI BLEND 10-0-0 as a liquid spray early in the morning or late afternoon to reduce drift. Use nozzles that produce a larger droplet size with a higher volume of water and/or irrigate into the root zone. For best results, apply when temperatures in the root zone exceed 10°C and environmental conditions favor turf growth.

Soil Application

Cool or Warm Season Grasses: Apply 95-190 millilitres per 100 square metres or 9.4-18.5 litres per hectare (4-7.5 litres per acre) 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

Total Nitrogen (N)	10.0%
1.0% Ammoniacal nitrogen	
5.0% Nitrate nitrogen	
4.0% Urea nitrogen	
Calcium (Ca)	5.0%

Derived from urea, urea ammonium nitrate and calcium nitrate.



GRIGG 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

Application and Use

To prevent or correct nutrient deficiencies, apply GRIGG BURLEY GREEN 18-2-3 as a liquid spray early in the morning or late afternoon to reduce drift. Allow 3-6 hours for drying time before irrigation. For best results, apply after mowing when temperatures in the root zone exceed 10°C and environmental conditions favor turf growth.

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

Cool Season Grasses: Apply 190-285 millilitres per 100 square metres or 18.5-28 litres per hectare (7.5-11.5 litres per acre).

Warm Season Grasses: Apply 285-475 millilitres per 100 square metres or 28-47 litres per hectare (11.5-19 litres per acre).

Guaranteed Analysis

Total Nitrogen (N)	18.0%
12.0% Urea nitrogen	
6.0% Other water soluble nitrogen*	
Available Phosphoric Acid (P_2O_5)	2.0%
Soluble Potash (K_2O)	3.0%

Derived from urea, methylene diurea, methylene urea, mono ammonium phosphate and potassium citrate.

*33% slow release nitrogen of total nitrogen.

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.



GRIGG DISPLACE 9-0-0

GRIGG Displace is a liquid fertilizer that contains two sources of nitrogen and 12% calcium. 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

To prevent or correct nutrient deficiencies, apply GRIGG DISPLACE 9-0-0 as a liquid spray early in the morning or late afternoon to reduce drift. Use nozzles that produce a larger droplet size with a higher volume of water and irrigate into the root zone. For best results, apply when temperatures in the root zone exceed 10°C and environmental conditions favor turf growth.

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

Cool Season Grasses: Apply 190-380 millilitres per 100 square metres or 18.5 -37.5 litres per hectare (7.5-15 litres per acre).

Warm Season Grasses: Apply 285-475 millilitres per 100 square metres or 28-47 litres per hectare (11.5-19 litres per acre).

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

Cool Season Grasses: Apply 285-380 millilitres per 100 square metres or 28-37.5 litres per hectare (11.5-15 litres per acre).

Warm Season Grasses: Apply 380-475 millilitres per 100 square metres or 37.5-47 litres per hectare (15-19 litres per acre).

Guaranteed Analysis

Total Nitrogen (N)	9.0%
8.0% Nitrate nitrogen	
1.0% Urea nitrogen	
Calcium (Ca)	12.0%

Derived from calcium nitrate and urea.

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

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.



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.

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

				Nutrient Content											
Proven Foliar Nutrients	Specific Gravity	lbs per 100 gal	pH	N	P ₂ O ₅	K ₂ 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 A-O-K	1.260 lbs of Nutrient per gal:	10.515	7.60	2.0% 0.2103		24.0% 2.5237									
GRIGG A-O-K Plus	1.480 lbs of Nutrient per gal:	12.351	6.70	1.0% 0.1235		25.0% 3.080									
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% 0.1193		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 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 MegAleX	1.055 lbs of Nutrient per gal:	8.8	6-8	3.0% 0.264											
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 Suprema	1.310 lbs of Nutrient per gal:	10.932	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 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											

Soil Specialty Fertilizers	Specific Gravity	lbs per 100 gal	pH	N	P ₂ O ₅	K ₂ O	B	Ca	Co	Cu	Fe	Mg	Mn	Mo	Zn
GRIGG Iron 12-0-0	1.290 lbs of Nutrient per gal:	10.766	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 per gal:	11.016	1.00	10.0% 1.1016				5.0% 0.5508							
GRIGG Burley Green	1.480 lbs of Nutrient per gal:	1.190	8.80	18.0% 1.7876	2.0% 0.1986	3.0% 0.2979									
GRIGG Displace	1.480 lbs of Nutrient per gal:	12.350	0.75	9.0% 1.112				12.0% 1.4820							

SPREADER SETTINGS

GRIGG GREENSPEC Recommended Rates

GRIGG Turf Rally 16-4-8

Spreader	FAIRWAY GRADE - 6.25 lbs per 1,000 ft ²			GREENS GRADE - 3.12 lbs per 1,000 ft ²		
	Ground Speed / MPH	Width of Coverage / FT	Setting	Ground Speed / MPH	Width of Coverage / FT	Setting
Scott R8	3	10	L 12	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	M 12	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 GRADE - 6.25 lbs per 1,000 ft ²			GREENS GRADE - 8 lbs per 1,000 ft ²		
	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 12 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 1/2	3	10	18
Vicon (03 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.

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.

All GRIGG GreenSpec granular nutrient rates are expressed in lbs per 1,000 sq ft with grams per meter squared [g/m²].

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 Nutra Green	0.5	4
GRIGG P-K Plus	0.5	4

ATLANTIC CANADA

Nutrition Programs

Newer Generation Creeping Bentgrass Swards

Spring Green Up/Root Generation: (after 2nd mowing)		
GRIGG Proven Foliar	fl oz/1,000 ft ²	L/Ha
GRIGG Nutra Green	6	20
GRIGG Gary's Green Ultra	6	20
5 days prior to aeration:		
GRIGG GreenSpec	lbs/1,000 ft ²	g/m ²
GRIGG Seven Iron	10	40
Mid-Spring and into Summer:		
GRIGG Proven Foliar	fl oz/1,000 ft ²	L/Ha
GRIGG Nutra Green	6	20
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 ²	g/m ²
GRIGG Turf Rally	6.25	25
GRIGG Proven Foliar	fl oz/1,000 ft ²	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 ²	L/Ha
GRIGG Tuff Turf	6	20
GRIGG Gary's Green Ultra	6	20

*Trimmit® is a registered trademark of the Syngenta® Corporation

Annual Bluegrass and Creeping Bentgrass Swards

Spring green up/root generation: (after 2nd mowing)		
GRIGG Proven Foliar	fl oz/1,000 ft ²	L/Ha
GRIGG Nutra Green	6	20
GRIGG Gary's Green Ultra	9	30
5 days prior to aeration:		
GRIGG GreenSpec	lbs/1,000 ft ²	g/m ²
GRIGG Seven Iron	10	40
Mid-Spring and into Summer:		
GRIGG Proven Foliar	fl oz/1,000 ft ²	L/Ha
GRIGG Tuff Turf	4	15
GRIGG P-K Plus	6	20
GRIGG Gary's Green Ultra	12	40
Early Fall:		
GRIGG GreenSpec	lbs/1,000 ft ²	g/m ²
GRIGG Seven Iron	10	40
GRIGG Proven Foliar	fl oz/1,000 ft ²	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 ²	L/Ha
GRIGG Tuff Turf	6	20
GRIGG Gary's Green Ultra	6	20

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

All GRIGG GreenSpec granular nutrient rates are expressed in lbs per 1,000 sq ft with grams per meter squared [g/m²].

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.

All GRIGG GreenSpec granular nutrient rates are expressed in lbs per 1,000 sq ft with grams per meter squared [g/m²].

Spring aeration: 5-7 days prior to aeration		
GRIGG GreenSpec	lbs/1,000 ft ²	g/m ²
GRIGG Seven Iron	10	40
Spring: Mar-Apr every 7-10 days		
GRIGG Proven Foliar	fl oz/1,000 ft ²	L/Ha
GRIGG Nutra Green	6	20
GRIGG Ultraplex	6	20
Late Spring: Apr-May every 7-10 days		
GRIGG Proven Foliar	fl oz/1,000 ft ²	L/Ha
GRIGG Gary's Green Ultra	6-9	20-30
GRIGG P-K Plus	6	20
Summer: June-Aug every 7-10 days		
GRIGG Proven Foliar	fl oz/1,000 ft ²	L/Ha
GRIGG Gary's Green Ultra	6-9	20-30
GRIGG P-K Plus	6	20
GRIGG Kelpex	2	6
Fall: Sept-Nov every 7-10 days		
GRIGG Proven Foliar	fl oz/1,000 ft ²	L/Ha
GRIGG Ultraplex	3	10
GRIGG P-K Plus or GRIGG Tuff Turf	6	20
Fall aeration: 5-7 days prior to aeration		
GRIGG GreenSpec	lbs/1,000 ft ²	g/m ²
GRIGG Seven Iron	10	40

WESTERN CANADA

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/m²].

Spring - Feb-Apr: every 10-21 days

GRIGG Proven Foliar	fl oz/1,000 ft ²	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 ²	g/m ²
GRIGG Seven Iron	10	40

Summer - May-Sept: every 10-21 days

GRIGG Proven Foliar	fl oz/1,000 ft ²	L/Ha
GRIGG Gary's Green Ultra	9	30
GRIGG P-K Plus	6	20
GRIGG Kal-B	3	10

Late May:

GRIGG GreenSpec	lbs/1,000 ft ²	g/m ²
GRIGG Seven Iron	12	45

Late June:

GRIGG GreenSpec	lbs/1,000 ft ²	g/m ²
GRIGG Turf Rally	6	30

Fall - Sept-Nov: every 14-21 days

GRIGG Proven Foliar	fl oz/1,000 ft ²	L/Ha
GRIGG Gary's Green Ultra	9	30
GRIGG P-K Plus	6	20
GRIGG Tuff Turf	3	10

At aeration:

GRIGG GreenSpec	lbs/1,000 ft ²	g/m ²
GRIGG Seven Iron	10-15	40-60

Winter:

GRIGG Proven Foliar	fl oz/1,000 ft ²	L/Ha
GRIGG Ultraplex	3	10

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.

All GRIGG GreenSpec granular nutrient rates are expressed in lbs per 1,000 sq ft with grams per meter squared [g/m²].

Spring:

GRIGG Proven Foliar	fl oz/1,000 ft ²	L/Ha
GRIGG Ultraplex	4	15
GRIGG Suprema	12	40
GRIGG A-O-K Plus	6	20

Summer:

GRIGG Proven Foliar	fl oz/1,000 ft ²	L/Ha
GRIGG Ultraplex	4	15
GRIGG Suprema	9	30
GRIGG A-O-K Plus	3	10
GRIGG Kal-B	4	12

Fall:

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

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/m²].

Spring foliar starter: every 7-10 days

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

Cool season maintenance: every 7-10 days

GRIGG Proven Foliar	fl oz/1,000 ft ²	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 maintenance: every 7-10 days

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

Cool and warm soil conditioning: every 7-10 days

GRIGG Proven Foliar	fl oz/1,000 ft ²	L/Ha
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 O₂, 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 program, spray the following recommended products and rates every 7 days:

GRIGG Proven Foliar	fl oz/1,000 ft ²	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.

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.

GRIGG TURF RESEARCH

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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