

Harrell'sMAX[®]
LIQUID FOLIAR NUTRITIONALS



Harrell's MAX[®] provides you results that get noticed.

The complete line of Harrell's MAX[®] liquid foliar nutritional products is an ideal way to complement your granular fertilization program. Foliar fertilizers feed through the leaves, crown, and roots, allowing for maximum plant uptake, less environmental loss through foliar application of stabilized nitrogen and lower nutrient loadings, and rapid green-up. The products may also be mixed with many pesticides and plant growth regulators for a labor-saving, one-step application.

The Harrell's MAX[®] product line has been specifically formulated to provide you with a complete and highly effective fertilizer portfolio. All foliar nutritional N, P & K components are derived from the finest foliar grade sources, allowing for maximum uptake and exceptional product quality. In addition, all Harrell's MAX[®] micronutrient components have been chelated or complexed in order to maximize foliar absorption, increase tank-mix compatibility with other nutrients, and help protect these essential elements from environmental degradation.

Harrell'sMAX[®]

The line of Harrell's MAX[®] liquid foliar nutritionals includes more than 30 different products, all engineered with innovative formulas that will provide outstanding results to help you grow dense and healthy turfgrass.



Harrell's incorporates UMAXX[®] stabilized nitrogen technology into many Harrell's MAX[®] foliar products. UMAXX[®] is uniquely formulated with two proprietary enzyme blockers that minimize Nitrogen loss to the environment. UMAXX[®], together with Harrell's MAX[®], ensures that the plant is receiving the intended essential nutrients. UMAXX[®] is a registered trademark of Koch Agronomic Services, LLC.

THE SCIENCE BEHIND HARRELL'S MAX[®] LIQUID FOLIAR NUTRITIONALS

Harrell's MAX[®] liquid foliar nutritionals represent state of the art technology providing more effective and efficient nutrition for closely mowed turf.

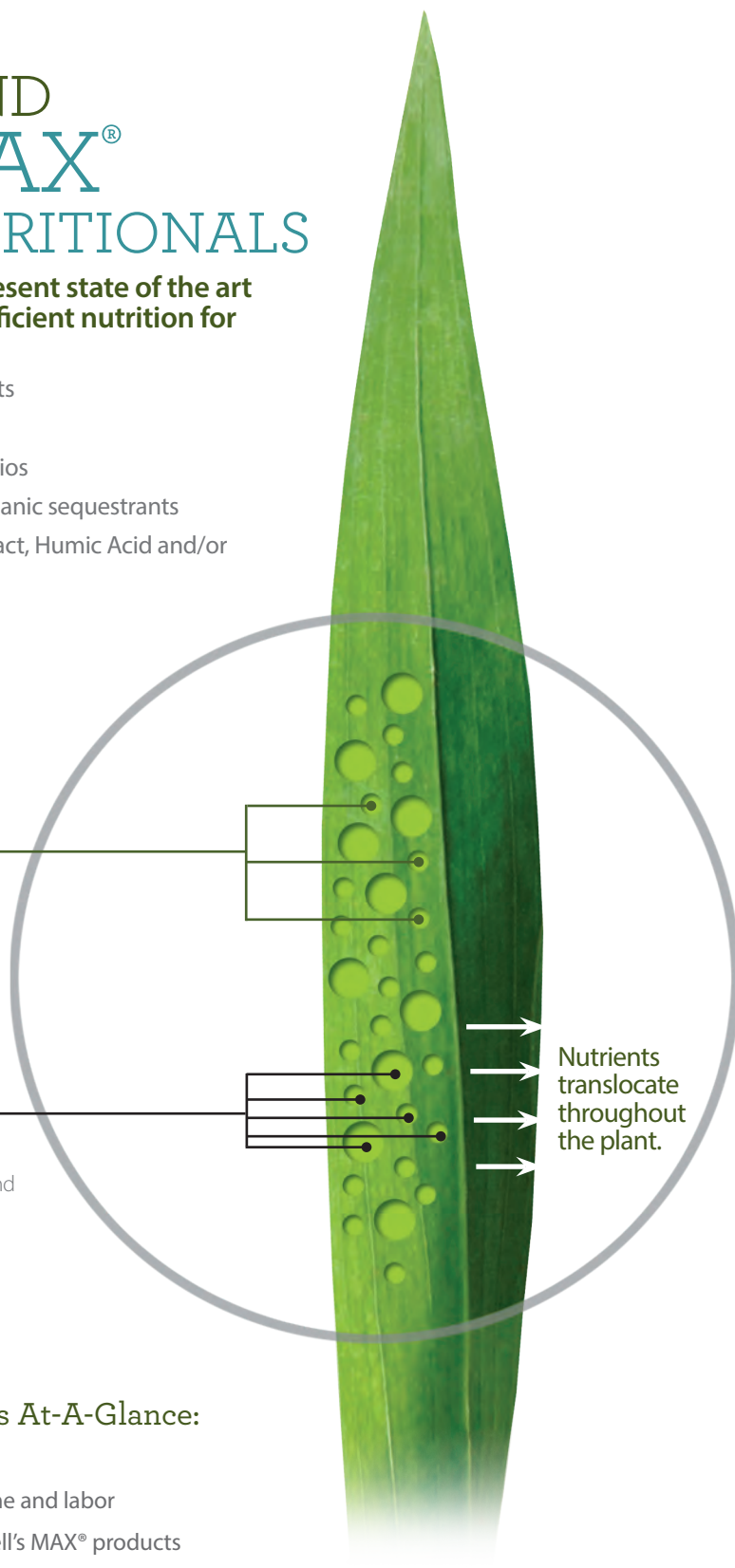
- Each product contains multiple sources of nutrients
- Nutrient sources are high quality
- Nutrients are combined in carefully considered ratios
- Nutrients are chelated and/or complexed with organic sequestrants
- Harrell's Bio-MAX[®] products contain Seaplant Extract, Humic Acid and/or Fulvic Acid

Transcuticular Pore Spaces:

These cuticle cracks are small, numerous, and always open, providing the perfect entryway for well-engineered and formulated nutrients.

Harrell's MAX[®]

Harrell's MAX[®] Foliar Nutritionals are formulated so the molecular structures are small enough to pass through these pore spaces and penetrate into the turfgrass plant.



Harrell's MAX[®] Liquid Foliar Nutritionals At-A-Glance:

- Rapid green-up
- Tank mix-compatible with other products to save time and labor
- Target single nutrient deficiencies with specific Harrell's MAX[®] products
- Consistent, uniform application of minor elements
- Products are available for both turf and ornamental applications

Harrell's MAX[®]



#820440 2.5 gal.
#820440A 30 gal.

4-0-0

with UMAXX®

- Designed to promote stress tolerance
- Formulated to improve photosynthetic efficiency
- Provides foliar uptake of Nitrogen, Iron, and Manganese

Total Nitrogen (N)*	4.00%
2.25% Nitrate Nitrogen	
1.75% Urea Nitrogen	
Iron (Fe)	2.00%
2.00% Chelated Iron	
Manganese (Mn)	3.00%
3.00% Water Soluble Manganese	

Derived From: Urea, Iron Citrate, and Manganese Nitrate.

**All nitrogen in this product stabilized with dicyanodiamide and N-(n-Butyl)-thiophosphoric triamide.*

Non-Plant Food Ingredients: 52% Kelp Extract from *Ascophyllum nodosum* (microbe food).

Product Information:

Harrell's Bio-MAX® 4-0-0 with UMAXX® is a professional-use product offering turf managers advanced foliar nutrition. This product contains nitrogen, iron, manganese, and kelp extract as microbe food.

Bio-MAX® 4-0-0 contains two proven biostimulants to promote turfgrass stress tolerance and root development, and it provides both iron and manganese for improved color.

Rates:

Turf: Apply 3 – 12 oz. per 1,000 sq. ft. every 7 – 14 days. Apply in sufficient water to ensure thorough coverage.

Trees & Ornamentals: Apply 2 oz. per gallon of water every 2 – 4 weeks throughout the growing season.



#ROOMAX 2.5 gal.
#ROOMAX1 30gal.
#ROOMAX2 250 gal.

Root Enhancer is not available in California.

Root Enhancer

Foliar & Soil Additive

- Designed to promote resistance to stress
- Formulated to improve photosynthetic efficiency
- Provides foliar Iron

Iron (Fe)	5.00%
5.00% Complexed Iron (Fe)	

Derived From: Iron Glucoheptonate.

Non-Plant Food Ingredients:

10.0% Fulvic Acid from Leonardite
2.5% Kelp Extract from *Ascophyllum nodosum*

This product is 10% fulvic acid by weight.

Product Information:

Harrell's Bio-MAX® Root Enhancer is a blend of naturally occurring organic compounds and complexed iron designed for both foliar and soil application.

Rates:

Turf (Greens & Tees): Apply 3 – 6 oz. per 1,000 sq. ft. every 7 – 14 days in enough water to allow for thorough coverage. For initial application, apply 4 oz. per 1,000 sq. ft. Continue 4 oz. applications as needed.

Fairways & Athletic Fields: Apply 3 – 4 qts. per acre as needed.

Establishing Greens & Other Turf: Apply 4 oz. per 1,000 sq. ft. when sprigging or seeding. Continue 4 oz. applications every 2 weeks until grass has grown in.

Container Grown Ornamentals & Trees: Dilute 2 oz. of Root Enhancer per 1 gallon of water and apply as a soil drench in the spring and fall.

Transplants, Ornamentals & Trees: To minimize transplant shock and enhance growing medium of ornamentals and trees, dilute 2 oz. of Root Enhancer per 1 gallon of water and apply a soil drench initially and then twice annually (spring and fall).



#880098- 2.5 gal.

Amino Pro V

- Promotes abiotic stress tolerance
- Stimulates photosynthesis
- Promotes increased root mass

Total Nitrogen (N)	5.00%
5.00% Other Water Soluble Nitrogen	

Derived From: Vegetable protein hydrolysate

Product Information:

Amino Pro V is an innovative fertilizer based on plant-derived protein hydrolysate nitrogen. This nitrogen is rapidly absorbed by leaves and translocated in plant tissue.

Rates:

Turf, Ornamentals, and Specialty Ag: Apply 1-4 oz./1000 ft² during the growth cycle of the plant.

HARRELL'S BIO-MAX®

Powered by biostimulants to promote stress tolerance, photosynthesis and root development



#820442 2.5 gal.

12-0-6

with UMAXX®

- Designed to promote resistance to stress
- Formulated to improve photosynthetic efficiency
- Provides foliar uptake of nitrogen, potassium and micronutrients
- Formulated with urea nitrogen

Total Nitrogen (N)*	12.00%
12.00% Urea Nitrogen	
Soluble Potash (K ₂ O)	6.00%
Iron (Fe)	1.00%
1.00% Chelated Iron (Fe)	
Manganese (Mn)	1.00%
1.00% Chelated Manganese (Mn)	

Derived From: Urea, Potassium Citrate, Iron Citrate, and Manganese Citrate.

**All nitrogen in this product stabilized with dicyanodiamide and N-(n-butyl)-thiophosphoric triamide.*

Non-Plant Food Ingredients: 17% Kelp Extract from *Ascophyllum nodosum* (microbe food).

Product Information:

Harrell's Bio-MAX® 12-0-6 is a professional-use product offering turf managers advanced foliar nutrition. This product is a proprietary formula containing macro- and micronutrients, seaplant extract and fulvic acid.

Rates:

Turf: Apply 3 – 6 oz. per 1,000 sq. ft. every 7 – 14 days. Apply in sufficient water to ensure thorough coverage.

Trees and Ornamentals: Apply 2 oz. per gallon of water every 2 – 4 weeks throughout the growing season.



#880062 2.5 gal.
#880062B 30 gal.
#880062A 250 gal.

EarthMAX®

Foliar & Soil Additive

- Designed to improve soil health
- Formulated to improve soil nutrient cycling
- Formulated to promote resistance to stress

Active Ingredients

3.00% Organic Matter (derived from Humus)	
4.30% Humic Acid (derived from Humus)	

Inert Ingredients

Deionized Water	92.70%
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Product Information:

Harrell's Bio-MAX® EarthMAX® is intended for use on trees, shrubs, grass, vegetables, flowers, and crops. Applying EarthMAX® to in-ground and container plants may aid in micronutrient uptake and increase water retention. Contains 22% Carbon.

Rates:

Turf – Foliar Applications: Apply 2 – 4 oz. per 1,000 sq. ft. every 7 – 14 days.

Turf – Soil Applications and Remediation of Severely Stressed Turf: Apply 3 – 12 oz. per 1,000 sq. ft.

Turf – Hydroseeding Applications: Apply a 1% solution every week until turf is established. Then, apply every 7 – 14 days.

Turf – Sod Applications: Apply a 2% solution every week until turf is established. Then, apply every 7 – 14 days.

Ornamentals – Plant and Shrub Applications: For large developed ornamentals, apply as a root drench with a dilution rate of 4 oz. per gallon of water every 2 – 4 weeks. Do not apply if temperature falls below 50° F.

Ornamentals – For Smaller Tender Ornamentals: Use a dilution rate of 2 oz. per gallon of water every 2 – 4 weeks. Do not apply if temperature falls below 50° F. For stressed ornamentals, apply at a rate of 12 oz. per 1,000 square feet every 2 – 4 weeks. Do not apply if temperature falls below 50°F. For agricultural crops, apply at a rate of 1 gallon of concentrate diluted in water to cover 1 acre every 2 – 4 weeks. Do not apply if temperature falls below 50° F.



#820487 2.5 gal.

7-7-7

with UMAXX®

- Designed to aid in stress tolerance
- Formulated to improve photosynthetic efficiency
- Provides foliar uptake of Nitrogen, Phosphorus, Potassium and listed micronutrients

Total Nitrogen (N)*	7.00%
1.00% Nitrate Nitrogen	
6.00% Urea Nitrogen	
Available Phosphate (P ₂ O ₅)	7.00%
Soluble Potash (K ₂ O)	7.00%
Iron (Fe)	1.00%
1.00% Chelated Iron (Fe)	
Manganese (Mn)	0.08%
0.08% Water Soluble Manganese (Mn)	
Zinc (Zn)	0.08%
0.08% Water Soluble Zinc (Zn)	

Derived From: Urea, Phosphoric Acid, Potassium Phosphate, Iron Citrate, Manganese Citrate, Manganese Nitrate, and Zinc Citrate.

**All nitrogen in this product stabilized with dicyanodiamide and N-(n-butyl)-thiophosphoric triamide.*

Non-Plant Food Ingredients: 21% Kelp Extract from *Ascophyllum nodosum* (microbe food).

Product Information:

Harrell's Bio-MAX® 7-7-7 contains nitrogen, phosphorus, potassium and listed micronutrients; plus kelp extract as a food source for microbes.

Rates:

Turf (Greens & Tees): 3 – 10 fl. oz. per 1,000 sq. ft. (0.03 – 0.10 lb. of N per 1,000 sq. ft.) as necessary.

Fairways & Other Turf: Apply 3 – 24 oz. per 1,000 sq. ft. (0.03 – 0.25 lb. of N per 1,000 sq. ft.) as necessary. Use sufficient water for good coverage.

Ornamentals: Apply 1 – 4 quarts per 100 gallons. Repeat every 2 – 4 weeks as necessary. Apply in sufficient water to ensure thorough coverage.

Seaplant Extract

Cytokinin is the growth hormone responsible for cell division and root growth. Because of the extremely high level of cytokinins in *Ascophyllum nodosum* seaplant extract, supplementing turf with seaplant extract has been shown in independent university research to stimulate production of antioxidants in plant cells and promote the activity of the important antioxidant enzyme, superoxide dismutase. The overall result is a boosted immune system for the turf and some peace of mind for the turfgrass manager.

Fulvic Acid

Fulvic acid is an important biostimulant that contributes to plant health, physiological fitness and stress tolerance by enhancing the availability of nutrients, vitamins, coenzymes, and auxins. By enhancing plant metabolism they can aid in stress tolerance. Fulvic acid also increases the amount of carbohydrates in the plant. More carbohydrates means more energy and reserves.

Humic Acid

Soluble Humic Acid is an excellent source of auxins that promote root growth, and, as a chelating agent, it increases micronutrient availability.

Harrell's Bio-MAX®



#822586 2.5 gal.
#822587 30 gal.
#820204 250 gal.

18-3-6

with UMAXX®

- Highly effective foliar Nitrogen, Phosphorus, Potassium, and Iron formulation
- Formulated for plant color and health

Total Nitrogen (N)* 18.00%
15.00% Urea Nitrogen
3.00% Nitrate Nitrogen
Available Phosphate (P₂O₅) 3.00%
Soluble Potash (K₂O) 6.00%
Iron (Fe) 0.10%
0.10% Chelated Iron (Fe)

Derived From: Urea, Potassium Phosphate, Potassium Nitrate, and Iron Citrate.

**All nitrogen in this product stabilized with dicyanodiamide and N-(n-Butyl)- thiophosphoric triamide.*

Product Information:

Harrell's MAX® 18-3-6 with UMAXX® provides urea and nitrate nitrogen plus phosphorus, potassium and iron for consistent performance in a convenient formulation.

Rates:

Turf: This product can be applied throughout the growing season on warm and cool season grasses. Application can be started in early spring and continued through late fall. Apply on greens, tees, and fairways at 2 – 7 oz. per 1,000 sq. ft. (0.03 – 0.10 lb. per 1,000 sq. ft.) with a spray unit. This product is compatible with most technical turf products. When mixing with other products, check dilution rates. Apply every 7 – 21 days, or apply along with a summer disease program.

Trees & Shrubs: For deep root feeding, mix 1 – 5 gal. of 18-3-6 with UMAXX® per 100 gal. of water. Inject 1 – 5 gal. per inch of trunk diameter at chest height.

Volumetric Conversion Information:

1 fl. oz. of 18-3-6 with UMAXX® = 0.014 lb. N; 0.0024 lb. P₂O₅; 0.005 lb. K₂O; 0.00008 lb. Fe.



#880150-2.5 2.5 gal.
#880150-30 30 gal.
#880150-250 250 gal.

12-0-12

with UMAXX®

- Highly effective foliar Nitrogen, Potassium, and Iron formulation
- Balanced foliar nutritional formulated for plant color and health

Total Nitrogen (N)* 12.00%

12.00% Urea Nitrogen

Soluble Potash (K₂O)..... 12.00%

Derived From: Urea and Potassium Acetate.

**All nitrogen in this product stabilized with dicyanodiamide and N-(n-butyl)-thiophosphoric triamide.*

Product Information:

Harrell's MAX® 12-0-12 with UMAXX® is a general purpose, liquid fertilizer that provides a 1:1 blend of nitrogen to potassium to help plants withstand the rigors of environmental stress.

Rates:

Turfgrass: Harrell's MAX® 12-0-12 with UMAXX® can be applied throughout the growing season on warm and cool season grasses. Application can be started in early spring and continued through late fall. Apply 2 – 10 oz. per 1,000 sq. ft. (0.02 – 0.10 lb. N & K per 1,000 sq. ft.) every 7 days – 4 weeks or as needed.

Greens, & Tees: Apply 2 – 10 oz. per 1,000 sq. ft. (0.02 – 0.10 lb. N & K per 1,000 sq. ft.) with a spray unit. Harrell's MAX® 12-0-12 with UMAXX® is compatible with most technical turf products. When mixing with other products, check dilution rates. Apply every 7 – 21 days, or apply along with a summer disease program.

Trees & Ornamentals: 1 – 2 qts. per 100 gal. of water.

Volumetric Conversion Information:

1 fl. oz. of 12-2-12 with UMAXX® = 0.01 lb. N; 0.01 lb. K₂O.



#822610 2.5 gal.
#822611 30 gal.
#822612 250 gal.

12-0-0

6% Fe and 3% Mn with UMAXX®

- Specially formulated foliar Nitrogen and micronutrient formulation
- Designed for superior color response and correction of Iron and Manganese deficiencies

Total Nitrogen (N)* 12.00%

12.00% Urea Nitrogen

Iron (Fe) 6.00%

6.00% Chelated Iron (Fe)

Manganese (Mn) 3.00%

3.00% Chelated Manganese (Mn)

Derived From: Urea, Manganese Citrate, and Iron Citrate.

**All nitrogen in this product stabilized with dicyanodiamide and N-(n-butyl)-thiophosphoric triamide.*

Product Information:

Harrell's MAX® 12-0-0 is a liquid fertilizer that contains an economical combination of chelated iron and manganese and a stabilized source of nitrogen from UMAXX® to help promote dark green color in plants.

Rates:

Turf (Greens & Tees): 3 – 10 fl. oz. per 1,000 sq. ft. (0.03 – 0.10 lb. of N per 1,000 sq. ft.) as necessary.

Fairways & Other Turf: Apply 3 – 24 oz. per 1,000 sq. ft. (0.03 – 0.25 lb. of N per 1,000 sq. ft.) as necessary. Use sufficient water for good coverage.

Trees & Ornamentals: 1 – 2 qts. per 100 gal. of water.

Volumetric Conversion Information:

1 fl. oz. of 12-0-0 6% Iron and 3% Manganese with UMAXX® = 0.011 lb. N; 0.0036 S; 0.0053 lb. Fe; 0.0027 lb. Mn.



#822160 2.5 gal.
#822157 30 gal.
#822158 250 gal.

N30 Plus

with UMAXX®

- Highly effective foliar Nitrogen formulation
- Stabilized Nitrogen provides uniform color and growth response

Total Nitrogen (N)* 30.00%

7.50% Ammoniacal Nitrogen

7.50% Nitrate Nitrogen

15.00% Urea Nitrogen

Derived From: Urea and Ammonium Nitrate.

**All nitrogen in this product stabilized with dicyanodiamide and N-(n-Butyl)- thiophosphoric triamide.*

Non-Plant Food Ingredients: 1% Kelp Extract from *Ascophyllum nodosum* (microbe food).

Product Information:

Harrell's MAX® N30 Plus with UMAXX® is a non-clogging blend of nitrogen fertilizers with a nitrogen stabilizer and kelp extract. This product will promote regrowth during high traffic periods. This product may be injected in small amounts into irrigation systems (fertigation).

Rates:

Turfgrass: Apply 2 – 8 oz. per 1,000 sq. ft. (0.05 – 0.20 lb. N per 1,000 sq. ft.) once a week or as necessary during the growing season. Apply in sufficient water to ensure thorough coverage.

Trees & Ornamentals: 1 – 2 qts. per 100 gal. of water.

Volumetric Conversion Information:

1 fl. oz. N 30 Plus with UMAXX® = 0.0255 lb. N.

GOT ROOTS?

Harrell's MAX® Soil & Foliar Program

Soil applications every 14 days

2oz./m	Salt Rx
2oz./m	EarthMAX®
2oz./m	Magnesium
2oz./m	Fleet®

* First soil app is a 4oz./m of all products then 2oz./m of all products every 14 days.

Foliar Applications every 14 days

2oz./m	18-3-6
2oz./m	4-0-0
2oz./m	12-0-0
2oz./m	Nitrate Plus
2oz./m	Minors
2oz./m	Stress Relefe
2oz./m	Calcium
2oz./m	Title Phyte®

* Start fertility program in April with 0.75lbs. N/M Ammonium Sulfate following Aerification



Picture and Program Credit: Blues Creek Golf Club



#200249 2.5 gal.
#200249A 30 gal.
#200249B 250 gal.

Long Iron

15-0-0 with UMAXX®

- Formulated for efficient foliar uptake of Nitrogen and Iron
- Aids with Iron deficiencies

Total Nitrogen (N)* 15.00%
15.00% Urea Nitrogen
Iron (Fe) 6.00%
6.00% Complexed Iron

Derived From: Urea and Iron Glucoheptonate.

**All nitrogen in this product stabilized with dicyanodiamide and N-(n-Butyl)- thiophosphoric triamide.*

Product Information:

Harrell's MAX® Long Iron 15-0-0 with UMAXX® is most effective during active growth and less effective when plants are dormant or suffering from stress. Harrell's MAX® Long Iron 15-0-0 with UMAXX® formulation provides compatible mixing ability with amine based herbicides. This product will mix with most commonly used herbicides, pesticides, fertilizers, and fungicides. Tank mixture compatibilities may vary because of changes in formulations, water sources, temperature, and spray volumes. Always conduct a jar test for compatibility before tank mixing.

Rates:

Spray Volumes For Turfgrass: Spray volumes can range from 0.5 – 4 gallons per 1,000 sq. ft. for adequate coverage. For Long Iron 15-0-0 with UMAXX® tank mixtures containing amine formulations of herbicides, spray volumes greater than 2 gallons per 1,000 sq. ft. are recommended.

Bahiagrass, Bentgrass, Centipedegrass, Tall Fescue, St. Augustinegrass, and Zoysiagrass: Apply 2 – 8 oz. per 1,000 sq. ft. with sufficient water for good coverage. 3 – 5 applications per growing season usually produce the best results. For bentgrass, do not exceed 5 fl. oz. per 1,000 sq. ft. per application. When temperatures can exceed 90° F, do not apply more than 3 fl. oz. per 1,000 sq. ft. to centipedegrass if applied with other fertilizers, pesticides, or specialty products.

Bermudagrass: Apply 4 – 10 fl. oz. per 1,000 sq. ft. with sufficient water for good coverage. Three to five applications per growing season usually produce the best results.

Bluegrass, Perennial Ryegrass and other northern grasses: Apply 2 – 8 fl. oz. per 1,000 sq. ft. with sufficient water for good coverage. Three to five applications per growing season usually produce the best results.



#200295 2.5 gal.
#200295A 30 gal.
#200295B 250 gal.

Nitrate Plus

6-0-0®

- Supplements Manganese, Iron, Zinc and Magnesium
- Also effective on warm and cool season turfgrass species

Nitrogen (N) 6.00%
6.00% Nitrate Nitrogen
Magnesium (Mg) 2.00%
2.00% Water Soluble Magnesium (Mg)
Iron (Fe) 2.00%
2.00% Water Soluble Iron (Fe)
Manganese (Mn) 5.00%
5.00% Water Soluble Manganese (Mn)
Zinc (Zn) 0.50%
0.50% Water Soluble Zinc (Zn)

Derived From: Magnesium Nitrate, Manganese Nitrate, Iron Nitrate, and Zinc Nitrate.

Product Information:

Harrell's MAX® Nitrate Plus 6-0-0® is specially formulated to provide a combination of manganese, iron, zinc and magnesium to promote a quick color response for all types of turf. This product contains nitrogen and will correct deficiencies of the listed secondary and micronutrients when used as directed. This formula allows rapid uptake and assimilation for a greener plant.

Rates:

Turf: Apply 2 – 4 oz. per 1,000 sq. ft. Repeat every 2 – 4 weeks as necessary. Apply in sufficient water to ensure thorough coverage.

Ornamental Landscape: Apply 1 – 2 quarts per 100 gallons. Repeat every 2 – 4 weeks as necessary.

Harrell'sMAX®

PHOSPHORUS, POTASSIUM & SECONDARY NUTRIENTS



#820571 2.5 gal.
#820572 30 gal.

Phosphorus Plus

3-30-3

- Formulated to encourage early root development
- Promotes plant density
- Essential component of phospholipid membranes and plant energy metabolism

Total Nitrogen (N) 3.00%
3.00% Urea Nitrogen
Available Phosphate (P_2O_5) 30.00%
Soluble Potash (K_2O) 3.00%

Derived From: Urea, Phosphoric Acid, and Potassium Phosphate.

Product Information:

Harrell's MAX® Phosphorus Plus 3-30-3 is an integral part of a complete fertility program. Harrell's MAX® Phosphorus Plus 3-30-3 can be used along with other Harrell's products as part of a regular fertilization program.

Rates:

Turfgrass: Apply 2 – 4 oz. per 1,000 sq. ft. every 7 – 14 days or as necessary during growing season.

Ornamentals: 1 – 2 qts. per 100 gal. of water.



#820816 2.5 gal.
#820817 30 gal.
#820818 250 gal.

Title Phyte®

0-0-30

- Formulated as a foliar potassium supplement
- Potassium is essential for carbohydrate metabolism, and the breakdown and translocation of starches

#820816-CA 2.5 gal.
#820817-CA 30 gal.
#820818-CA 250 gal.

Soluble Potash (K_2O) 30.00%

Derived From: Potassium Phosphite.

A product obtained when Phosphorus acid is neutralized with Potassium hydroxide. Contains no available Phosphate as P_2O_5 .

Product Information:

Harrell's MAX® Title Phyte® is formulated for use on turfgrass and is a fertilizer treatment for potassium deficiency. This product is intended to be used as a supplement to a well-balanced fertilizer program. It is not intended to be a substitute for sound soil fertilization and conventional cultural practices. Thorough coverage of foliage is necessary for best results when used as a foliar treatment.

Rates:

Greens, Tees, & Approaches: 2 – 4 oz. per 1,000 sq. ft. every 7 – 14 days. Apply in sufficient water to ensure thorough coverage.

Landing Areas, Fairways & Sports Turf: Apply 3 oz. per 1,000 sq. ft.

Overseeding & Sprigging or Laying of Sod: 3 oz. per 1,000 sq. ft. Apply post germination, sprigging or laying of sod and at 14 day intervals thereafter in a minimum of 200 gallons of water per acre.

Trees & Ornamentals: 1 – 2 quarts per 100 gallons of water.



#200232 2.5 gal.
#200232A 30 gal.

Stress Relefe

0-0-25

- Specifically formulated for rapid foliar uptake and utilization of Potassium
- Promotes plant stress tolerance
- Reduces mottling and marginal chlorosis of leaf tissue

Soluble Potash (K_2O) 25.00%

Derived From: Potassium Acetate.

Product Information:

Harrell's MAX® Stress Relefe 0-0-25 is a high solubility liquid potassium fertilizer which can be applied directly to the soil, to the plant tissues (with water) or through an irrigation system. This product provides potassium for foliar and root uptake and utilization. This product can be applied throughout the growing season to aid with potassium deficiencies. Fall fertilization provides potassium, a key element in promoting stress tolerance from adverse environmental conditions.

Rates:

Cool Season Turf (Greens & Tees): Apply 2 – 4 oz. per 1,000 sq. ft. (0.04 – 0.08 lb. K per 1,000 sq. ft.) as necessary. Apply every 7 – 14 days or as needed.

Warm Season Turf – Greens & Tees: Apply 4 – 8 oz. per 1,000 sq. ft. (0.10 – 0.20 lb. of K per 1,000 sq. ft.) as necessary. Apply every 7 – 14 days or as needed.

Trees & Ornamentals: Apply at 32 – 64 oz. per 100 gallons of water as a drench or foliar spray. Repeat as needed.



#200236 2.5 gal.
#200236B 30 gal.
#200236C 250 gal.

Potassium plus Calcium

4-0-8

- Specifically formulated for optimal potassium and calcium foliar uptake
- Potassium plus Calcium promote healthy cell wall formation and regulation of the osmotic potential of plant cells
- Potassium is important for cuticle development in plants

Total Nitrogen (N) 4.00%
4.00% Nitrate Nitrogen
Soluble Potassium (K₂O) 8.00%
Calcium (Ca) 2.15%

Derived From: Potassium Nitrate and Calcium Nitrate.

Product Information:

Harrell's MAX® Potassium Plus Calcium is a specially formulated blend of nutrients designed for application on a wide variety of turf grasses, trees and ornamental plants. Repeat applications may promote plant tolerance to drought and environmental stress.

Rates:

Greens & Tees: Apply 2 – 6 oz. per 1,000 sq. ft. in enough water to ensure thorough coverage. Repeat every 3 – 4 weeks. For initial application, apply 4 oz. per 1,000 sq. ft. If preferred, continued 4 oz. applications will improve plant vigor and not harm plants.

Fairways & Sports Turf: Apply 3 – 4 qts. per acre. Repeat as needed.

Establishing Greens & Other Turf: Apply 4 oz. per 1,000 sq. ft. in enough water to ensure thorough coverage when sprigging or seeding. Continue 4 oz. applications every 2 weeks until grass has grown in.

Bentgrass: Use 16 oz. per 1,000 sq. ft. in sufficient water to cover, which will provide 1/10 lb. of N per 1,000 sq. ft.

Trees & Ornamentals: Apply at 32 – 64 oz. per 100 gallons of water as a drench or foliar spray. Repeat as needed.



#200238 2.5 gal.
#200238A 30 gal.
#200238C 250 gal.

Calcium

8.25% 6-0-0

- Specifically formulated to aid with Calcium deficiencies
- Calcium is essential for plant cell wall formation and healthy cell division
- Calcium is a vital messenger for numerous plant metabolic processes

Total Nitrogen (N) 6.00%
6.00% Nitrate Nitrogen (N)
Calcium (Ca) 8.25%
8.25% Complexed Calcium (Ca)

Derived From: Calcium Nitrate, Calcium Glucoheptonate.

Product Information:

Harrell's MAX® Calcium is a complexed secondary plant nutrient that will aid in supplementing the crop's calcium requirement and may be applied throughout the growing season. When used as a part of a balanced fertility program, it will aid with calcium deficiencies, especially in rapidly expanding foliage and fruiting structures. It is not designed to correct soil pH.

Rates:

Turf – Greens & Tees: 2 – 4 oz. per 1,000 sq. ft.

Fairways: As a supplement to Hi-Calcium limestone or Dolomite, apply 3 – 5 gallons per acre.

Lawns & Sod (including Bermudagrass, Floratam, Zoysia and Carpetgrass): Apply 6 – 8 oz. per 1,000 sq. ft. Repeat every 14 – 21 days as necessary.

For Correction of a Deficiency and/or For Soil Remediation: 4 – 8 oz. per 1,000 sq. ft.

Trees & Ornamentals: 1 – 2 qts. per 100 gal. of water. Apply at the 1 qt. rate for routine Calcium maintenance. Apply at the 2 qt. when severe Calcium deficiencies have been documented through proper fertility sampling.



#200231 2.5 gal.
#200231B 30 gal.

Magnesium

4%

- Highly effective liquid formulation designed to aid with Magnesium deficiencies
- Magnesium is an essential component of the chlorophyll molecule
- Magnesium reduces premature leaf abscission

Magnesium (Mg) 4.00%
4.00% Complexed Magnesium (Mg)

Derived From: Magnesium Glucoheptonate.

Product Information:

Harrell's MAX® Magnesium 4% is a liquid formulation designed to aid with magnesium deficiencies. Magnesium is an important secondary nutrient, very essential for photosynthesis, since it is part of the chlorophyll molecule. Insufficient amounts of magnesium will appear as a loss of green color at the bottoms of older leaves. Severe deficiencies will also affect younger leaves and can result in the formation of lesions. High levels of calcium and potassium can reduce magnesium uptake. Harrell's MAX® Magnesium 4% assists in chlorophyll production, providing magnesium in a complexed form that is readily available for both soil and foliar applications. It is ideal for mixing with acid sensitive products and is generally not affected by soil conditions, and other nutrients.

Rates:

Turf (Greens & Tees): Apply 2 – 4 oz. per 1,000 sq. ft. in enough water to cover.

Trees & Ornamentals: Apply as a soil drench or foliar spray at 1 – 2 qts. per 100 gal.



#200225 2.5 gal.

Manganese

5.0%

- Specifically formulated for optimum manganese foliar uptake
- Aids with Manganese deficiencies
- Manganese optimizes photosynthetic reactions
- Manganese reduces premature leaf abscission

Manganese (Mn) 5.00%
5.00% Complexed Manganese (Mn)

Derived From: Manganese Glucoheptonate.

Product Information:

Harrell's MAX® Manganese 5% is a liquid foliar formulation designed to aid with Manganese deficiencies on turf and ornamentals. A jar test to check the compatibilities of new or unfamiliar combinations should be performed prior to mixing and application.

Rates:

Turf (Greens and Tees): Apply 2 – 4 oz. per 1,000 sq. ft.

Fairways, Athletic Fields & Sod: Apply 2 – 4 quarts per acre.

Trees & Ornamentals: 1 – 2 qts. per 100 gal. Drench only and thoroughly rinse this product from leaf tissue. For small applications, mix 1 oz. per gallon of water and wet thoroughly.



#200233 2.5 gal.
#200233A 30 gal.
#200233C 250 gal.

Minors

- Optimal liquid foliar formulation of essential plant nutrients listed below
- Aids with micronutrient deficiencies

Magnesium (Mg) 1.00%
1.00% Water Soluble Magnesium (Mg)
Sulfur (S) 3.50%
3.50% Combined Sulfur (S)
Boron (B) 0.02%
Copper (Cu) 0.25%
0.25% Complexed Copper (Cu)
Iron (Fe) 4.00%
4.00% Complexed Iron
Manganese (Mn) 1.00%
1.00% Complexed Manganese
Molybdenum (Mo) 0.0005%
Zinc (Zn) 0.60%
0.60% Complexed Zinc

Derived From: Magnesium Sulfate, Sodium Borate, Copper Glucoheptonate, Iron Glucoheptonate, Manganese Glucoheptonate, Zinc Glucoheptonate, and Sodium Molybdate.

Product Information:

Harrell's MAX® Minors is a liquid foliar formulation of the listed secondary and micronutrients designed to aid in the correction and prevention of nutrient deficiencies. The copper, iron, manganese, and zinc in this product have been complexed to improve availability in higher pH soils where trace elements often become unavailable to the plant.

Rates:

Turf (Fairways, Greens & Tees): Apply 2 – 6 oz. per 1,000 sq. ft. or 3 – 6 quarts per acre.

Trees & Ornamentals: Apply 2 – 4 quarts per 100 gallons of water as a drench or foliar spray. Repeat as needed.



#820443B 2.5 gal.
#820443 30 gal.
#820443A 250 gal.

IronMn Mg

3% Fe, 4% Mn, and 1% Mg

- Designed to enhance turf color and quality
- Formulated for optimal foliar absorption of micronutrient components

Magnesium (Mg)	1.00%
1.00% Chelated Magnesium (Mg)	
Sulfur (S)	5.75%
5.75% Combined Sulfur (S)	
Iron (Fe)	3.00%
3.00% Chelated Iron (Fe)	
Manganese (Mn)	4.00%
4.00% Chelated Manganese (Mn)	

Derived From: Magnesium Sulfate*, Ferrous Sulfate*, and Manganese Sulfate*.

*Chelated with Citric Acid

Product Information:

Harrell's MAX® IronMn Mg is a liquid fertilizer that contains a plant available and economical combination of chelated iron, manganese and magnesium; and when used as directed will promote a dark green color in turf.

Rates:

Turf: Apply 3 – 6 oz. per 1,000 sq. ft. bi-weekly or as needed.

For severe deficiencies apply 8 – 12 oz. per 1,000 sq. ft. bi-weekly or as needed.

Ornamentals: apply 2 quarts per 50 gallons of water every 30 days or apply split applications of 2 pints per 100 gallons of water weekly, as needed.



#200294 2.5 gal.
#200294A 30 gal.

Non-Staining Iron

- Specifically formulated to minimize staining potential
- Aids with Iron deficiencies

Iron (Fe)	6.00%
6.00% Chelated Iron	

Derived From: Iron Citrate.

Product Information:

Harrell's MAX® Non-Staining Iron is specially formulated to be applied on lawns and turf in areas that present risks of staining concrete. When Harrell's MAX® Non-Staining Iron is properly applied it will correct and prevent iron deficiencies in turf and lawns. A jar-test to check the compatibilities of new unfamiliar combinations should be performed prior to mixing and application.

Rates:

Turf (Greens, Tees, & Lawns): Apply 1 – 2 oz. per 1,000 sq. ft. in enough water to allow for thorough coverage. Repeat every 2 – 4 weeks, or as needed.

Fairways: Apply 1 – 2 quarts per acre in enough water to allow for thorough coverage - usually 50 gallons of water. Repeat as needed.

Ornamental Landscape: Apply 2 – 4 qts. per 100 gallons.

Other Crops Requiring Iron: Use reduced rates of 1/2 – 1 pint per acre in enough water to cover and repeat at regular intervals. Do not use on solanaceous plants or plants sensitive to foliar iron applications.



#200292 2.5 gal.
#200292A 30 gal.
#200292C 250 gal.

NSM

Non-Staining Micros

- Specifically formulated to minimize staining potential
- Micronutrient formulation designed to supplement any fertilizer program

Magnesium (Mg)	1.50%
1.50% Chelated Magnesium	
Sulfur (S)	3.50%
3.50% Combined Sulfur	
Boron (B)	0.02%
Copper (Cu)	0.25%
0.25% Water Soluble Copper (Cu)	
Iron (Fe)	3.00%
3.00% Chelated Iron	
Manganese (Mn)	1.00%
1.00% Chelated Manganese	
Molybdenum (Mo)	0.0005%
Zinc (Zn)	0.60%
0.60% Chelated Zinc	

Derived From: Magnesium Citrate, Sodium Borate, Copper Sulfate, Iron Citrate, Manganese Citrate, Zinc Citrate and Sodium Molybdate.

Product Information:

Harrell's MAX® NSM is formulated for soil or foliar application and is designed to supplement all fertilizer programs. It is an excellent tank mix buffer. Harrell's MAX® NSM can be applied through all types of irrigation systems including drip and micro-sprinklers. It may be applied by conventional ground sprayers or sprayer type systems. During periods of drought or when plants are under environmental stress, nutrient uptake can be limited and spray solutions should not be more concentrated than 1:600 ratio or 1 quart in 150 gallons of water.

Rates:

Turf (Fairways, Greens & Tees): Apply 2 – 6 oz. per 1,000 sq. ft. or 3 – 6 quarts per acre.

Trees & Ornamentals: Apply 2 – 4 quarts per 100 gallons of water as a drench or foliar spray. Repeat as needed.

SOIL AMENDMENTS



#200251 2.5 gal.
#200251-30 30 gal.
#200251-250 250 gal.

Soil Surge

17-0-0

- Promote water infiltration / percolation / distribution
- Reduces carbonate deposits

Total Nitrogen (N) 17.00%
17.00% Urea Nitrogen

Derived From: Urea

Product Information:

Harrell's MAX® Soil Surge is a liquid sprayable fertilizer that is designed to reduce the pH of irrigation water and soil.

Rates:

Apply Harrell's MAX® Soil Surge at 16 to 64 oz. per acre. Product should be applied with a spray volume of 40 gallons of water per acre for fairways and 80 gallons of water per acre for greens. Product may be applied every seven to thirty days as an aid to lowering soil pH. Repeat as necessary to maintain desired results. After spray application, immediately irrigate the area as necessary to wash Harrell's MAX® Soil Surge off the canopy and into the soil profile.

Depending upon the buffering capacity of the soil, the pH of sandy to sandy loam soils may be reduced by 0.5-1.0. Soils with high buffering capacity will require multiple applications for desired results.



#200245 2.5 gal.
#200245A 250 gal.

Salt Rx is not available in California.

Salt Rx

0-0-5

- Specifically formulated to displace Sodium
- Formulated as a remedy for bicarbonate affected soils

Soluble Potash (K_2O) 5.00%

Derived From: Potassium Citrate.

Product Information:

Harrell's MAX® Salt Rx has been formulated to aid in the remediation of salt and bicarbonate affected soils. Salt Rx utilizes potassium to displace sodium on soil colloids thereby allowing sodium to leach through the soil profile. Citrate reacts with bicarbonates in the soil converting them to carbon dioxide and water.

Rates:

Tee and Fairway Remediation: Apply to area suspected of having salt problems at the rate of 2 – 6 oz. per 1,000 sq. ft. Repeat as necessary.

Turf – Greens, Tees, Fairways, Sod & Lawn Maintenance: Apply to suspected area at the rate of 1 – 2 oz. per 1,000 sq. ft. every 7 – 14 days. Repeat as needed.

Ornamentals: Apply to area suspected of having salt problems at the rate of 2 qts. per 100 gal. Repeat as necessary.

Fertigation: Product may be applied through sprinkler systems at the rate of 1 qt. – 2 qts. per acre.



#820813 2.5 gal.

Potassium Silicate

0-2-12

- Formulated to provide soluble, plant available Silicon
- Designed to promote leaf blade rigidity

Available Phosphate (P_2O_5) 2.00%
Soluble Potash (K_2O) 12.00%

Derived From: Potassium Hydroxide, Potassium Phosphate, and Potassium Silicate.

Contains Beneficial Substance:

Soluble Silicon (Si) 2.47%

Derived From: Potassium Silicate.

Product Information:

Harrell's MAX® Potassium Silicate concentrate is a blend of phosphorus, potassium and silica for use by professional applicators as a part of a regular fertilizer program.

Rates:

Apply Harrell's MAX® Potassium Silicate at the rate of 3 – 6 oz. per 1,000 sq. ft. in sufficient water for thorough coverage. Harrell's MAX® Potassium Silicate may be applied every 2 weeks throughout the growing season.

For tournament preparation: apply 3 – 4 days before the tournament date for best results. Harrell's MAX® Potassium Silicate does not have to be watered in. You can water it in lightly without affecting the results.





#SOIENH 2.5 gal.

Soil Enhancer

- Liquid foliar & soil additive specifically formulated as a soil microbe food to promote microbial activity
- Contains simple sugars, kelp extract and a non-ionic surfactant

Simple Sugars (from molasses)	80.00%
Kelp Extract (<i>Ascophyllum nodosum</i>)	2.50%
(microbe food*)	
Nonionic Surfactant	2.00%
INERT INGREDIENTS	15.50%
Total	100.00%

Product Information:

Harrell's MAX® Soil Enhancer contains nonplant food ingredients which include simple sugars and kelp extract for use as a food source for soil microbes. Harrell's MAX® Soil Enhancer can be injected through irrigation systems and/or tank mixed for spray applications. Apply at temperatures below 85°F (29.5°C). Do not apply over 10 gallons per acre per month. Harrell's MAX® Soil Enhancer is designed to be used in conjunction with a normal fertilization program.

Rates:

Turfgrass: Tank mix 4 – 8 ounces per 1,000 sq. ft. every 2 – 4 weeks throughout the growing season. Inject 2.5 – 5 gallons of product per acre every 2 – 4 weeks throughout the growing season. Water-in following application.

Spigging & Sod: Inject or tank mix 3 gallons per acre. Apply two applications the first month at 16 day intervals. Repeat with 2.5 – 6 gallons per acre every 2 – 4 weeks throughout the growing season. Water-in following application.

Ornamentals: Apply 1 – 8 quarts per 100 gallons. Repeat every 2 – 4 weeks as necessary. Apply in sufficient water to ensure thorough coverage.



#200247 2.5 gal.
#200247-30 30 gal.
#200247A 250 gal.

Cal Plus

3-0-0

- Complexed Calcium source
- Designed to impact bicarbonates and sodium

Total Nitrogen (N)	3.00%
3.00% Nitrate Nitrogen	
Calcium (Ca)	10.00%
10.00% Complexed Calcium (Ca)	
Magnesium (Mg)	1.00%
1.00% Complexed Magnesium (Mg)	
Boron (B)	0.30%

Derived From: Calcium Nitrate, Magnesium Nitrate, Calcium Gluconate, Magnesium Gluconate, Boric Acid.

Product Information:

Harrell's MAX® Cal Plus is for use as a supplement on all professionally maintained golf and sports turf, lawn and landscaping.

Rates:

Foliar Spray: 3 – 7 ounces per 1,000 sq. ft. Repeat every 7 – 14 days.

Flushing: 7 – 14 ounces per 1,000 sq. ft. Repeat as necessary.

Fertigation: 2.5 – 5 gallons per acre. Repeat 3 – 4 times per year.



#880057A 55 gal.
#880057 250 gal.

Neutralizer

15-0-0

- Modifies irrigation pH
- Impacts high irrigation water bicarbonates

Total Nitrogen (N)	15.00%
15.00% Urea Nitrogen	
Sulfur (S)	16.00%
16.00% Combined Sulfur (S)	

Derived From: Urea and Sulfuric acid.

Product Information:

Harrell's MAX® Neutralizer is a liquid injectable fertilizer that is designed to reduce the pH of irrigation water.

Rates:

See Table below for product use rates:

Product Use Rate Table*			
Irrigation Water pH Before	Gal / 100,000 Gal of Water	Oz / 1,000 Gal of Water	Irrigation Water pH After
8.0	4	2.5	7
8.0	8	5	6
8.0	12	10	5
8.0	16	15	3
*Values in this table are based on irrigation water with low levels of bicarbonate.			

Please see also **EarthMAX®** in the Bio-MAX® section on page 5.

TAKE THE HARRELL'S FOLIAR CHALLENGE

Harrell's is committed to giving you the highest quality, most cost-effective foliar products and programs to help you reach your agronomic and cosmetic goals.

Let Harrell's analyze your foliar program for you. We'll tell you exactly how much macro and micro-nutrients you're getting and whether it's the amount of N and the N:P:K ratio you want. Then, we'll show you an equivalent or better Harrell's MAX® program, or we'll build one for you that meets your specific agronomic goals.

Turf Manager: _____

Location: _____

Number of square feet: _____

Number of tanks used for application: _____

Frequency of application: _____

Number of applications per year: _____

Agronomic goals: _____

Type of turf: _____

N:P:K ratio desired: _____

of lb. of N desired from Foliar per year: _____

EXISTING PROGRAM		WEEK ONE	
PRODUCT (COMPANY, BRAND NAME/ANALYSIS)		RATE	

EXISTING PROGRAM		WEEK TWO	
PRODUCT (COMPANY, BRAND NAME/ANALYSIS)		RATE	

NUTRIENT APPLICATION REFERENCE

Product	Rate	Lb. of Nutrient / 1,000 sq. ft.								Rate
	oz/1,000	N	P	K	Mg	S	Fe	Mn	Ca	Gal/A
Bio-MAX® 4-0-0 with UMAXX®	1.0	0.0031				0.0005	0.0015	0.0023		0.30
	3.0	0.0092				0.0014	0.0046	0.0069		1.00
	6.0	0.0184				0.0027	0.0092	0.0137		2.00
Bio-MAX® 7-7-7 with UMAXX®	1.0	0.0059	0.0059	0.0059	0.0001	0.0007	0.0008	0.0004		0.30
	3.0	0.0178	0.0178	0.0178	0.0004	0.0020	0.0025	0.0013		1.00
	6.0	0.0356	0.0356	0.0356	0.0008	0.0041	0.0051	0.0025		2.00
Bio-MAX® 12-0-6 with UMAXX®	1.0	0.0103		0.0052			0.0009	0.0009		0.30
	3.0	0.0310		0.0155			0.0026	0.0026		1.00
	6.0	0.0619		0.0310			0.0052	0.0052		2.00
18-3-6 with UMAXX®	1.0	0.0150	0.0030	0.0050			0.0005			0.30
	7.0	0.101	0.0170	0.0340			0.0008			2.40
	10.4	0.150	0.0250	0.0500			0.0011			3.50
	15.0	0.203	0.3040	0.0680						5.10
12-0-12 with UMAXX®	1.0	0.0100		0.0100						0.30
	10.0	0.0994		0.0994		0.0497				3.40
	15.0	0.1491		0.01491		0.0745				5.10
	20.0	0.1988		0.1088		0.0994				6.80
12-0-0 6% Fe & 3% Mn with UMAXX®	1.0	0.0110				0.0036	0.0054	0.0027		0.30
	9.0	0.0970				0.0323	0.0485	0.0243		3.10
	14.0	0.1509				0.0503	0.0755	0.0377		4.80
	19.0	0.2048				0.0683	0.1024	0.0512		6.50
N30 Plus with UMAXX®	1.0	0.0256								0.30
	4.0	0.1022								1.40
	6.0	0.1533								2.00
	8.0	0.2044								2.70
Long Iron 15-0-0 with UMAXX®	1.0	0.0130				0.0026	0.0051			0.30
	8.0	0.1205				0.0205	0.0410			2.70
	12.0	0.1537				0.0308	0.0615			4.10
	15.0	0.2049				0.0410	0.0820			5.10
Nitrate Plus 6-0-0®	1.0	0.0054			0.0018		0.0018	0.0045		0.30
	3.0	0.0163			0.0054		0.0054	0.0136		1.00
	6.0	0.0326			0.0109		0.0109	0.0272		2.00
Phosphorus Plus 3-30-3	1.0	0.0030	0.0260	0.0030						0.30
	4.0	0.0105	0.1050	0.0105						1.40
	6.0	0.0158	0.1575	0.0158						2.00
	8.0	0.0210	0.2100	0.0210						2.70
Title Phyte® 0-0-30	1.0			0.0310						0.30
	2.0			0.0600						0.67
	3.0			0.0900						1.00
	4.0			0.1200						1.33
Stress Relefe 0-0-25	1.0			0.0262						0.30
	3.9			0.1020						1.30
	5.9			0.1540						2.00
	7.8			0.2040						2.70
Potassium Plus Calcium	1.0	0.0032		0.0063					0.0017	.30
	2.0	0.0063		0.0126					0.0034	.67
	3.0	0.0095		0.0189					0.0051	1.00
Potassium Silicate	1.0		0.0015	0.0077						.30
	2.0		0.0031	0.0153						.67
	3.0		0.0046	0.0230						1.00

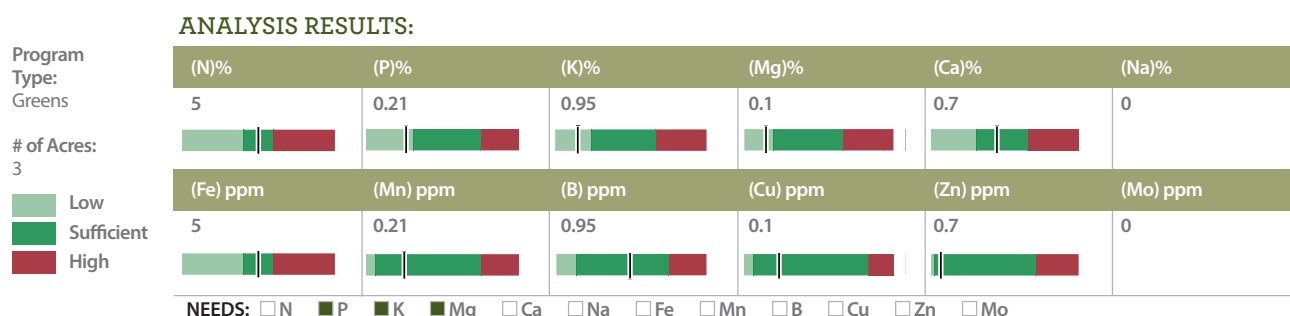
TISSUE CALCULATOR

PRESCRIBED NUTRIENTS TO CORRECT DEFICIENCIES IDENTIFIED BY TISSUE ANALYSIS

The Tissue Calculator allows your Harrell's representative the opportunity to develop a foliar prescription program designed for your specific turf needs. We will recommend Harrell's MAX® foliar nutritionals based on your individual leaf tissue analysis and needs. The Harrell's foliar calculator can determine which Harrell's MAX® products your turfgrass requires for optimal results.

- Available exclusively to Harrell's reps and customers
- User friendly, flexible tool that allows for the precise planning of applied nutrients
- Creates customized foliar plans
- Provides records by application date, month, or season

SAMPLE TISSUE ANALYSIS



LIQUID PRODUCTS:

PRODUCT NAME	Total Oz./1,000	N	P	K	Ca	Mg	S	Fe	Mn	Si	B	Zn	Cu	Mo
18-3-6 with UMAXX®	6	0.087	0.015	0.029	-	-	-	0.001	-	-	-	-	-	-
Phosphorus Plus 3-30-3	6	0.016	0.157	0.016	0	0	0	0	0	0	0	0	0	0
Stress Reliefe 0-0-25	8	0	0	0.188	0	0	0	0	0	0	0	0	0	0
Minors Complete Minors Pkg (with 4.00% Fe and 1.00% Mn)	4	-	-	-	-	0.003	0.012	0.014	0.003	-	0	0.002	0.001	0
Magnesium Supplement (with 4.00%Mg)	4	0	0	0	0	0.014	0	0	0	0	0	0	0	0
Root Enhancer	4	-	-	-	-	-	-	0.017	-	-	-	-	-	-
TOTALS	32	0.103	0.172	0.254	0	0.017	0.012	0.031	0.003	0	0	0.002	0.001	0
PROGRAM TOTALS		0.102	0.172	0.253	0	0.017	0.012	0.031	0.003	0	0	0.002	0.001	0

PRODUCTS NEEDED:

PRODUCT #	DESCRIPTION	GALLONS
822586	Harrell's MAX® 18-3-6 with UMAXX®	10.2
820571	Harrell's MAX® Phosphorus Plus 3-30-3	6.12
200232	Harrell's MAX® Stress Reliefe 0-0-25	8.16
200233	Harrell's MAX® Minors	4.08
200231	Harrell's MAX® Magnesium 4%	4.08
ROOMAX	Harrell's MAX® Root Enhancer plus Fulvic Acid	4.08

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Employee-Owned

Harrell's Core Values

- Serve, Honor, and Glorify God
- Take Care of People
- Grow Our Financial Strength

Harrell's Four Pillars

- Humility
- Gratitude
- Intentionality
- Accountability