

Tournament Greens Preparation

Preparing greens for tournament play requires a shift in fertility since management objectives are somewhat different from normal growing conditions, and are short-lived. Tournament greens should be consistent, fast, and dense with minimum growth during the event. At the same time, they should be as stress tolerant as possible due to the short cutting heights, traffic, and the fact that many tournaments on bentgrass occur during the summer stress period. Tournament preparation requires weekly applications with the primary purpose of increasing turf density, strengthening the plant and increasing green speed.

Nutrient Monitoring Program

The following program should be used as a guide. Monitoring nutrient levels in leaf tissue and soils is critical for designing the most efficient nutrient program. BioPro recommends the use of a diagnostic service that provides soil, water, and NIRS (Near Infrared Reflectance Spectroscopy) tissue analysis. With diagnostic results, BioPro nutrient programs may be modified to correct imbalances and prevent future problems.

Application Recommendations

1st Week

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|------------------------------------------------|--------|
| 1) Kleenstart (6-0-0) | 3 oz. |
| 2) Tuff Greens (0-0-13) | 3 oz. |
| 3) Calcium Plus (8-0-0-10) | 6 oz. |
| 4) Turf Starter (8-16-5)
(0.1 lb. N/1000sf) | 15 oz. |

2nd Week

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|------------------------------------------------|---------|
| 1) Multi-Purpose (6-0-0) | 3 oz. |
| 2) Tuff Greens (0-0-13) | 3 oz. |
| 3) Greens Plus (14-4-10)
(0.1 lb. N/1000sf) | 8.5 oz. |

3rd Week

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|-----------------------------|-------|
| 1) Multi-Purpose (6-0-0) | 3 oz. |
| 2) Tuff Greens (0-0-13) | 3 oz. |
| 3) Calcium Plus (8-0-0-10) | 6 oz. |
| 4) Magnesium Plus (7-0-0-6) | 6 oz. |

4th Week

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|------------------------------------------------|---------|
| 1) Multi-Purpose (6-0-0) | 3 oz. |
| 2) Tuff Greens (0-0-13) | 3 oz. |
| 3) Greens Plus (14-4-10)
(0.1 lb. N/1000sf) | 8.5 oz. |

5th Week

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|-----------------------------|-------|
| 1) Multi-Purpose (6-0-0) | 3 oz. |
| 2) Tuff Greens (0-0-13) | 3 oz. |
| 3) Calcium Plus (8-0-0-10) | 3 oz. |
| 4) Magnesium Plus (7-0-0-6) | 3 oz. |

6th Week (Apply on Monday of tournament week)

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|--------------------------|-------|
| 1) Multi-Purpose (6-0-0) | 3 oz. |
| 2) Tuff Greens (0-0-13) | 3 oz. |
| 3) Iron Plus (15-0-0-6) | 6 oz. |

Mixing: Fill spray tank with 1/4 the necessary water; add *Multi-Purpose* or *Bio CN* first, then additional products one at a time; if *Calci* the mix add it last; add remaining water last.

Notice: Calcium and magnesium products should not be mixed with liquid fertilizers containing phosphorus.

BioPro Products

Calcium Plus (8-0-0) is a chloride free, readily available calcium source. Calcium is critical for vigorous new growth and for establishing stress tolerance for the next season.

CytoGro (Liquid Root Biostimulant) is an EPA registered hormone biostimulant that improves turf tolerance to stress resulting from disease, insect damage, drought, and soil temperature extremes by augmenting cytokinins and auxins, the turf's natural growth hormones.

Greens Plus 14-4-10 & 12-0-12 (Liquid NPK Nutrient Blend) are balanced nutrient blend with nitrogen, phosphorous, and potassium in the same ratio as they are generally found in plant tissue. Nitrogen is supplied as a polymethylene urea blend to provide uniform turf growth and color. This product contains 8.85% controlled release nitrogen, and organic acids from leonardite, which may enhance nutrient uptake.

H3O (Liquid Soil Moisture Management Product) employs a revolutionary new chemistry formulated to manage root zone moisture, making efficient use of water and protecting the turf from the harmful effects of drought stress, thus reducing disease pressure and root shrinkage. It attracts and holds free water molecules from the air within the soil, and efficiently transfers them to the plant root.

Iron Plus (15-0-0) is a particularly effective Fe source. Humic acid is known to be an excellent organic chelator of Fe increasing its availability for plant uptake and mobility within plant tissue.

Kleenstart 6-0-0 (Soil Remediation Product) contains enzymes designed to aid in the breakdown of toxic compounds, and organic acids that sequester heavy metals and other soil toxins resulting from the accumulation of pesticide residues, salts, or other chemicals that restrict plant growth.

Magnesium Plus (8-0-0-6) is an excellent source of plant available magnesium with an organic base. Magnesium is involved in increasing stress tolerance in turf plants.

Multi-Purpose 6-0-0 (Liquid Organic Soil Conditioner) is a unique mixture of organic acids and biostimulants derived from a biological composting and extraction process. It is designed to increase nutrient availability to the plant, stimulate soil microbial activity, increase root mass, and improve overall turf quality.

Tuff Greens (0-0-13) is a superior potassium source with calcium, silica, and iron that increases leaf stiffness for increased wear tolerance and greens speed.

Turf Starter (8-16-5) is a starter fertilizer containing micronutrients, organic acids, and biostimulants, which is designed to promote root production, and increase tiller, stolon, and rhizome development.