

Standard Nutrient Program–Tropical & SubTropical Climates

The standard nutrition program promotes healthy soil activity while supplying a complete range of plant nutrients. Conventional fertility programs “feed the plant”. Nutrients are applied in a plant-available (soluble) form. This is a legitimate approach except that it treats soil as a rooting medium. The BioPro standard nutrition program addresses both soil health and turf nutrition knowing that the two are completely linked.

BioPro recommends a simple standard fertility program for tropical and sub-tropical regions as a general foundation from which to design a year round program with various N-P-K and minor nutrient sources. This standard program provides all the basic nutrient needs with organic supplements for vigorous turf throughout the year. In areas where greens and tees are overseeded with cool season grasses refer to the “*Standard BioPro Overseeding Program*” for a program for the overseeded period.

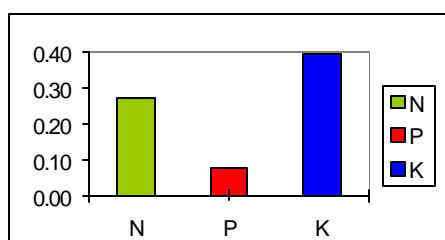
Nutrient Monitoring Program

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

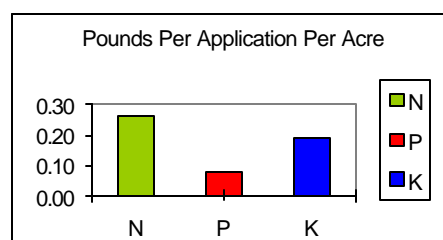
Every 14 Days

- | | |
|----------------------------|-------------|
| 1) Greens Plus (14-4-10) | 7.5 gallons |
| 2) Nutrisolve | 1.0 gallon |
| 3) MultiPurpose (6-0-0) | 1.0 gallon |
| 4) Enviro K (0-0-30) | 2.5 gallons |
| 5) Calcium Plus (8-0-0-10) | 1.0 gallon |



Every 30 Days

- | | |
|----------------------|------------|
| TurfPlex VI 12-3-9 | 200 pounds |
| Iron Plus (15-0-0-6) | 1.0 gallon |
| CytoGro | 1.0 Pint |
| H3O | 0.7 gallon |



Mixing: Fill spray tank with $\frac{1}{4}$ the necessary water; add Multi-Purpose first, then other products one at a time; if *Calcium Plus* is in the mix add it last; add remaining water.

Note: Syringe lightly after application of liquid products.

BioPro Products

Calcium Plus (8-0-0-10) 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.

Enviro K (0-0-30) provides potassium from potassium carbonate, a high quality, less caustic, chlorine-free source that is retained in the root zone longer for more uniform and consistent uptake by plants. It also contains organic acids from leonardite, which enhances turf performance and improves soil quality. Potassium's role in stress tolerance and recovery is well known.

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.

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.

The program is designed to provide these amounts of nutrients:

Nitrogen ----- 1.09 lb. per 1,000 Square Feet, per month
Phosphorous----- 0.30 lb. per 1,000 Square Feet, per month
Potassium----- 1.20 lb. per 1,000 Square Feet, per month