



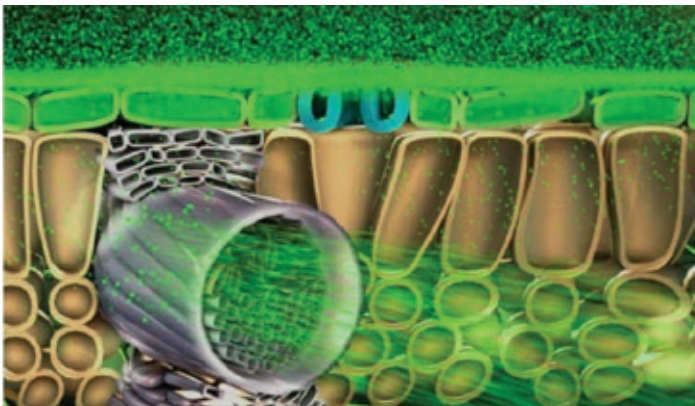
Manni-Plex®

High Performance Foliar Nutrition

MANNI-PLEX is a proprietary line of foliar nutrients that provides highly mobile and available elements to turf grass. It is an excellent tool for enhancing turf health and helps ensure that adequate levels of nutrients are present during high stress periods.

MANNI-PLEX Key Advantages

- Builds healthy, vibrant turf and strong root masses that help turf better withstand stressful conditions
- More efficient than other forms of foliar nutrients - molecular size/shape allows more nutrient penetration
- Proprietary formulations coat turf grass blades, which makes nutrients available for extended uptake
- Ready-to-use liquid formulations are compatible with most fungicides, insecticides and PGR's



The molecular shape and structure of MANNI-PLEX foliar nutrients allows the plant to absorb more nutrients at a faster rate.

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MANNI-PLEX Formulations

FOLI-CAL®

5-0-0, 10.0% Ca

MANNI-PLEX CAL-MAG

7-0-0, 5.3% Ca, 2.6% Mg

MANNI-PLEX CAL-ZN

6-0-0, 6.0% Ca, 3.0% Zn

MANNI-PLEX EAGLE

7-0-14, 0.5% Fe, 0.25% Mn

MANNI-PLEX FE

5-0-0, 5.0% Fe

MANNI-PLEX GROW

12-0-6, 0.25% Cu, 0.5% Fe, 0.25% Mn

MANNI-PLEX MG

5-0-0, 4.0% Mg

MANNI-PLEX MN

7-0-0, 5.0% Mn

MANNI-PLEX ROOT BUILDER

3-0-0, 0.5% Mg, 0.2% B, 0.05% Cu, 0.9% Mn, 4.7% Zn

MANNI-PLEX TOTAL TURF

5-0-0, 1.2% Mg, 2.85% Fe, 0.45% Mn, 0.65% Zn

MANNI-PLEX TRAFFIC

0-0-6

MANNI-PLEX ULTRA TURF

4-0-2, 0.5% Mg, 0.25% B, 0.5% Cu, 2% Fe, 0.5% Mn, 0.25% Mo

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Manni-Plex

2016 Turf Trial

Trial Objectives:

To determine the impact of MANNI-PLEX foliar fertilizer technology on turfgrass performance during, and after, tournament preparation. The trial was performed on A-4 creeping bentgrass (*Agrostis stoloniferous*), which was maintained as a putting green and received aggressive mowing and rolling.

Tournament Prep:

Included 0.100" mowing height for seven days and 0.085" for the remaining nine days; twice per day double mowing and daily lightweight rolling. After this high intensity period, mowing height increased to 0.100" and then 0.115" three days later during 'recovery' period for one month.

Foliar Application:

All reductions in turfgrass quality were associated with the intensive management operations from July 20 to August 5. MANNI-PLEX foliar fertilizers, or soluble nitrogen (N) as ammonium sulfate (AS) were applied sequentially prior to, during, and after the intensive management operations. Turf quality and performance data were collected weekly and recorded.

The following MANNI-PLEX applications were made every 7 days (and equivalent to 0.10 lbs N/M):

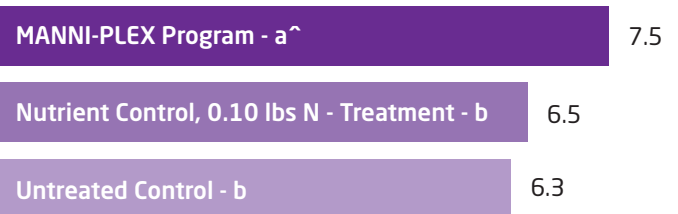
- 16 fl oz/M of MANNI-PLEX EAGLE (7-0-14, 0.5% Fe, 0.25% Mn)
- 6 fl oz/M of FOLI-CAL (5-0-0, 10% Ca)

Results:

Color, uniformity, and overall vigor of creeping bentgrass treated with a MANNI-PLEX foliar nutrient program was significantly better than an equivalent amount of nitrogen [0.10 lbs N/1000 ft² (M)] applied alone and the untreated during the peak period of stress.

The MANNI-PLEX program had the highest (or equivalent to the highest) color and quality ratings and no unacceptable ratings on any date during this trial. Turfgrass treated with MANNI-PLEX had significantly better quality on August 3, during peak plant stress.

Turfgrass Quality (1-9 Scale)



Impact of MANNI-PLEX foliar fertilizer program and soluble nitrogen (AS) on creeping bentgrass quality (August 3) during intensive management, or tournament preparation. (Kaminski and Lulis, 2016)

