



**TURF STAR** is the cool season back bone biostimulant product. Its benefits are as follows:

- Improved turf respiration
- Micronutrient package encourages
  - Chlorophyll production
  - Protein production which is essential in disease suppression
  - Serve to mitigate oxidative stress.
- Biostimulant package leans heavy on cytokines like which are ideal ratio for cool season turf.
  - Cell integrity
  - Cell division which is essential for turf durability
  - Root system proliferation.

**TURF STAR IS THE BACKBONE BIOSTIMULANT PRODUCT FOR COOL SEASON TURF TYPES:**

1. The biostimulant package in **TURF STAR** is specifically designed around the needs of these grasses, (bent grass all varieties, blue grass, rye grass, fescues, etc.). This particular biostimulant combination focuses on root development and new root initiation, cell division, and reducing senescing tendencies.
2. Cool season turf types are particularly prone to experience respiration stress under high heat conditions, but many of the components of **TURF STAR** can help to mitigate this stress (e.g., zinc helps as it is the "thermostat" of a plant, giving it the ability to endure more extremes ( hot or cold). Sulfur acts as an oxidative stress mitigater, copper acts to help the plant produce long chain proteins which are the ultimate biological objective of all plants, and manganese is so essential in enzymatic actions that its importance cannot be overstated).

**NOTES:**

- a. Given the propensity for cool season turf to suffer respiration stresses, it should be readily apparent that an excellent choice as a tank mix would be **TURF AIRE** which would replenish the calcium that the turf is losing in its respiration struggle.
- b. Given the positive effect on rooting, it should also be apparent that **TURF STAR** can be most effectively used on warm season turf types when rooting is an issue (e.g., when Bermuda is breaking dormancy in early spring and must be establishing a root system ).

**There is never a danger of applying TURF STAR to a warm season turf type! There could be a downside to applying Par-5 which is the backbone biostimulant product to cool season types under the wrong conditions.**