

# MANAGE NEMATODE PROBLEMS BEFORE THEY START

Nortica® is a biological agent that protects plant roots against parasitic nematodes in turf, lawns, sod farms and golf courses. Nortica, which contains the bacteria *Bacillus firmus* (strain I-1582), is used to help manage nematodes by creating a living barrier of protection around the roots.



## WHY 2 APPLICATIONS A YEAR?

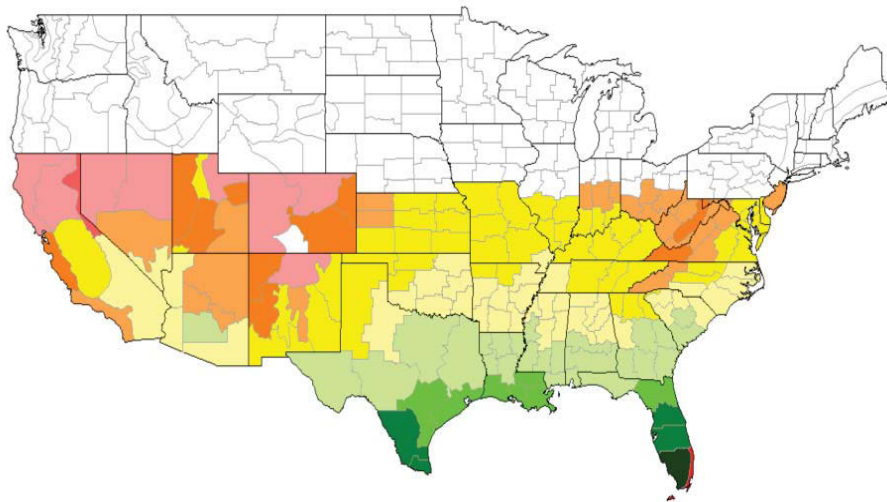
### SPRING APPLICATIONS (Late Winter/Early Spring)

- Protect new root growth into the summer.
- Create a living barrier around the turf root system protecting it throughout the growing season.
- Protect the roots from nematodes in all stages of their life cycle (Adult, J2 Larvae, Eggs).
- Spring greenup will be improved and the turf will be in better shape to live in the presence of damaging nematodes.

### FALL APPLICATIONS (Late Summer/Early Fall)

- Protect newly forming roots, help reduce levels of nematodes and send turf into winter in improved shape.
- Resupply the soil with fresh *Bacillus Firmus* spores.
- Bermudagrass develops roots during this time when nematode numbers tend to also increase.
- Overseeding bermudagrass greens tends to encourage nematode populations to increase.
- Larvae that emerge in the fall require roots to survive to adult stages in the spring. Nortica will continue to protect roots and help reduce fall emerging larval populations, thus reducing the potential increase in spring surviving adults.
- Even though root growth may only be for a short period in the fall, benefits can be expected in the spring as the roots begin to grow again.

## NORTICA APPLICATION TIMING GUIDELINE



SPRING Earliest Application For Spring Treatment*	FALL Latest Application For Fall Treatment*
Early February	Late November
Early March	Mid November
Early April	Early November
Late April	Late October
Early May	Mid October
Mid May	Early October
Late May	Mid September
Early June	Early September
Mid June	Not recommended
Late June	Not recommended
Mid January	Late December

Guidelines are based on 30 year Normals data from NOAA.

Visit the [www.backedbybayer.com/nortica](http://www.backedbybayer.com/nortica) - nematode-forecast website for the current year based on NOAA weather forecast. This will give you the best timing for your application. The maps will show when Nortica application should cease. Nortica is not registered in HI, AK, CA, IL and NY.

Note: Three maps are available on the website for 2-day current and 10-day future outlooks. When the conditions favor application on the two future outlooks maps prepare to make your application. Check the 3-day current map for favorability on the day you plan to apply.



### HOW TO APPLY?

- Ensure spray tank is clean and has been properly rinsed
- Use a minimum spray volume of 2 gal/1000 ft<sup>2</sup> as a spray or drench application
- **Irrigate immediately after application** to move the product off the foliage and into the root zone
  - Optimal product placement is in the top 4" of the root zone
  - Continue with normal irrigation practices
- **Do not tank-mix** with any other products

### WHAT TO EXPECT?

- Improved turf color, quality and density
- Significant improvements in size of the root system in infested areas
- Nematodes will still be found in the soil but will be less active

### WHEN TO APPLY?

- Utilize Bayer's "General Application Guide" noted below
- As your general treatment time approaches visit [www.backedbybayer.com/nortica](http://www.backedbybayer.com/nortica) for detailed treatment maps for your area