TURF AND SOIL
SOLUTIONS

HOW TO BEAT THE HEAT

SALINITY and DROUGHT stress show many similarities and the plants response for the two stresses are similar. High Sodium conditions lowers the soil water potential which makes it more difficult for plants to uptake water. [1]

Consider using plant-based fertility and amino acids to reduce the use and need for HIGH SALT INDEX fertilizer while also limiting the need for water

A continuous supply of Sodium ions will decrease the availability of other ions such as Potassium, Calcium and Magnesium [1]
Too much sodium inside the plant cell can cause the cell to lose potassium. Since potassium helps many enzymes work properly, too much sodium can make it harder for proteins to do their jobs. [2]

Bermudagrass uses certain small compounds, called metabolites, to make energy, build proteins, and keep growing. In Bermudagrass, 18 of those 37 compounds were affected during drought and salinity stress. [3]

Reduced water quality, limited water availability, prolonged irrigation with water containing salt ions, and improper fertilizer use are growing concerns that can contribute to soil salinization. [4]

1 Atta et al. (2023)
2 Page and Cera (2006)
3 Ye et al (2016)
4 Atta et al (2023)