



Improving Heat and Drought Tolerance with BioLiNE® Gold Fulvic Acid

BioLiNE® Gold is an effective and affordable tool for helping growers manage their crops. Our Fulvic Acids are essential to defending crops against heat stress and water deficiency.

Fulvic Acids at Planting Improve Crop Establishment

Fulvic acids should be used in seed treatments or applied during or shortly after planting (in-furrow) in climates where early season heat and drought stress is likely to occur. Fulvic acids improve germination, and early root and shoot growth in crops negatively impacted by early season drought stress.

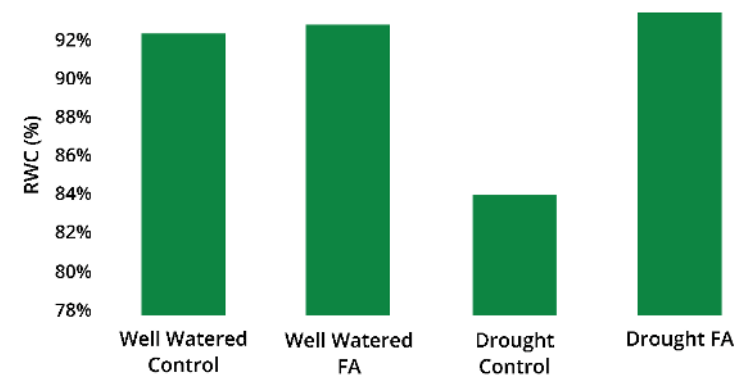
Foliar application of our BioLiNE® Gold Fulvic Acids

This is a proven method to ameliorate the adverse impact of heat and drought stress. We use our proprietary Fulv-IQ™ process to purify and isolate targeted fractions of fulvic acids that are most effective in transporting nutrients and protecting crops against heat and drought stress.

Heat & Drought Stress – Common Threat to Crop Yields

Seasonal drought is a problem that many growers worry will reduce their crop yields and quality. Fortunately, plants have developed natural defenses against seasonal heat and drought stress. Foliar application of fulvic acids shortly after the onset of heat and drought stress strengthens these natural defenses in several ways, ultimately helping your crops withstand the stress.

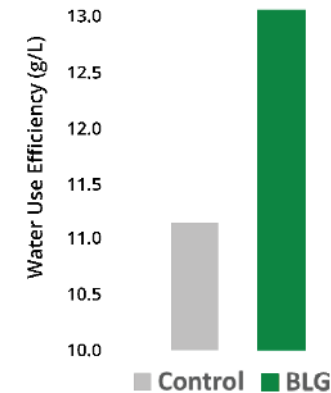
Relative Leaf Water Content After a Single Foliar Application of BioLiNE®Gold on Corn



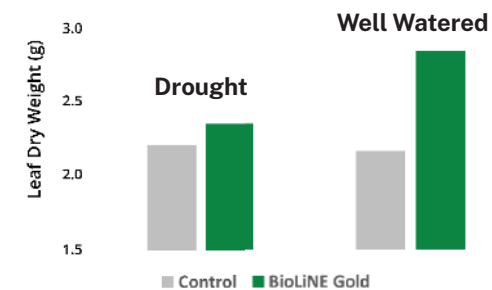
Foliar Applied Fulvic Acids Strengthen Crops Against Heat & Drought Stress:

- Maintains the relative leaf water content (RLWC) and enhances nutrient transport.
- Greatly increases the carbon dioxide assimilation rate (leaf gas exchange), which is necessary for photosynthesis.
- Improves water use efficiency (WUE) of crops grown under both well-watered and drought stress conditions.
- Drought stress reduces soluble protein concentrations in crops. Fulvic acids protect the treated crops, resulting in higher concentration of soluble proteins compared to untreated crops.
- Increases proline accumulation in crops, a crucial amino acid used by plants to combat abiotic stress.
- Increases antioxidant enzymes improving the plant's ability to defend against oxidative stress caused by drought.

Water Use Efficiency of Corn Under Drought Stress



Corn Plant Growth Enhancement



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