

BENEFITS OF AGRIWATER WATER TREATMENT:

Greenhouse applications using grow medium

Crop: Blueberries



THE FIRST IMPORTANT BENEFIT from the Agriwater water treatment in greenhouse environments is the efficiency with which it **stably increases the dissolved oxygen content of the water.** By doing this, much higher resistance to common greenhouse problems such as root rot is gained and improvements in the ability of plant roots to utilize the water and nutrients provided to it, is achieved.

THIS LEADS INTO THE SECOND BENEFIT. Nutrient reactions and interactions during treatment with the Agriwater system. AOP reactions and interactions of energized oxygen species while water is flowing under pressure during treatment aids in optimizing the mineral nutrient availability of fertilizer applications made through the water delivery system. This gives the grower much better control over what he/she aim to achieve with nutritional applications. It also enables beneficial mineral nutrient interactions to take place in the water that will improve the perceived water quality to the plants.

MORE ON THE IMPROVEMENTS ON WATER QUALITY:

It is common that greenhouses need to operate on water with high salt content or elevated hardness. With Agriwater water treatment AOP reactions and interactions leads to oxidization and association reactions of chloride rendering it much less bioavailable and able to flush through growth mediums with much lower accumulation and plant uptake. High mineral content of hard water is also softened through these reactions and interactions, turning inaccessible, lumped together matrices of minerals into bioavailable, mobile, ionic mineral species that are able to move free of carbonate and other anionic species in the water. This enables growers to tap into the nutritional value locked into hard water and use it to their advantage.



CLEAN DRIPPER

The clean dripper, with no mineral deposits, ensures that the drippers are delivering water evenly at their designed rate.

The pictures are of fall creek and top fruit blueberry cultivars that have been grown with the Agriwater system in the Groblersdal region in South Africa. Please note the progression of root development.



PLANTED Dec 8,



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Each aspect of the chemical mechanisms responsible for the benefits has been carefully studied, reported on, and matched to peer reviewed studies confirming the scientific basis of the system.

The Agriwater system uses photolytically generated ozone and a small dose of hydrogen peroxide as a catalyst to achieve optimized water characteristics with numerous benefits cascading from the water, into the soil, to plant root, and finally crop vigor, resilience and quality.