



Osmo-Hume

CHB Osmo-Hume is a three component combination to help reduce the negative effects of high soil-solution sodium on plant growth.

Component #1 – Sodium accumulation usually results in poor water penetration, CHB Osmo-Hume is formulated with surfactants that assist in increased water penetration to help move water soluble salts out of the irrigation zone.

Component #2 – Humic acid is one of the few compounds found in nature that has the ability to “tie up” the sodium ion, making it un-exchangeable, yet soluble, for leaching. It is recommended to apply in conjunction with CHB Premium 6 or Cal-Mate for additional humic acid and calcium/potassium uptake enhancement, which is often limited by high soluble sodium levels.

Component #3 – A proprietary blend of amino acid based compounds that help plants take up more water in a high soluble sodium solution. When the soil solution sodium increases, the conductivity of the soil water gets too high for root uptake of water (and nutrients) and although the soil is “wet”, plants do not get adequate water.

What is “Soil Solution Sodium”?

A standard soil test shows the total sodium content of the soil - both the sodium tied to the colloid and that which is soluble in the soil solution.

Therefore, we recommend that you ask for a saturated paste extract test for your soil. We recommend that you do this test several times during the growing season to monitor the calcium to sodium ratio. IF the calcium:sodium ratio becomes less than 1:1, then we recommend CHB Osmo-Hume.

For more information on sodic soils and saline soils, see our website at www.biogro.com and look up a technical paper entitled “Alkaline, Saline, and Sodic Soils” under the CFS Training Manual.

