

Demonstration Update

Objective

To monitor field moisture levels in the rootzone, NO_3 -N leaf concentration 5 weeks after treatment and marketable yields.

Set Up

The experiment was set up as a randomized block design with 4 replications. Plants were in single rows, 2 feet apart. Beds were 28 inches wide on top and 32 inches on the base covered with metalized mulch. Plots were 30 feet with 5 foot alleys.

Application

Two quarts per acre of WaterMaxx[®]2 were applied with a hydraulic injector at 0, 3 and 6 weeks after transplanting. Plots were irrigated with standard drip irrigation of 14 acre-inch/acre (1 acre-inch/acre = 27,154 gal) of water after plants' establishment. Three irrigation cycles ran each day, running 15, 20 and 30 minutes per irrigation from week 1 to 3, 4 to 6, and 7 to 12 respectively.

Study Results

Improved Moisture Content

WaterMaxx2 improved the moisture content in the soils at 5 inches deep. (Fig. 1) The increased moisture in the soil profile enabled the plants to maintain vigor even when irrigation rates were reduced to 60% of standard irrigation. (See photo, right).

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Results may vary depending upon soil, climate and other conditions

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Tomatoes Under Deficit Irrigation

Crop/Variety: Tygress Tomato Location: GCREC, Balm, Florida Investigator: University of Florida, IFAS





Tomatoes Under Deficit Irrigation





Results (cont/d)

Nitrogen Use Efficiency

WaterMaxx[®]2 increased the NO3-N concentration in leaf petioles at 5 WAT, when used with 80% of the standard irrigation levels. (Fig.2)

Yield Increase

There was a 4.1 ton/acre yield increase with the use of WaterMaxx2 at 80% standard irrigation compared to 80% standard irrigation alone. (Fig. 3) At the market price of \$15.53/45#box the grower would realize a gross increase of \$2795.00/acre.

Conclusion

Water restrictions - be they governmental, reduced rainfall or financial cost associated with them- are forcing many growers to use less water. Growers can be productive with the use of WaterMaxx2 as a moisture management tool.

Results from this data reveal that, as reduced irrigation practices become more common, the use of WaterMaxx2 will enable growers to maintain profitability with less water.







Plants treated with WaterMaxx2 and irrigated at 60% standard irrigation.

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