



## FIELD TRIAL RESULTS

SUMMER 2016

# WATERMELON TRIAL WITH THE UNIVERSITY OF GEORGIA

## TRIAL DESIGN

- ◆ Trial performed at the University of Georgia (UGA) research site in Moultrie, Georgia, as a randomized complete block with four replications
- ◆ Experimental plots consisted of 20 plants each in double rows. 10 plants each row, at 6' centers, 42" in-row spacing. Rows were covered in polyethylene plastic mulch
- ◆ Treatments of Concentric's IN-M1\* were as follows:
  - 1) 1% pre-plant application to plugs in seeding trays
  - 2) Transplant water as 50mL per hole of 1% solution
  - 3) Foliar application at peak female flower at a rate of 1 gallon/acre
- ◆ Both untreated and treated plots received the UGA standard production program. 1000 lbs/acre of 5-10-5 NPK as preplant broadcast, followed by fertigation of 7-0-7 NPK or CN-9 of 15lbs/N acre every 10 days beginning two weeks after planting. In total, fertigation provided 125 lbs/acre N. All plots were irrigated at the rate of 1 inch of water per week.
- ◆ IN-M1 showed increases greater than 10% across all factors of yield and plant vigor. Results were consistent with previous IN-M1 trials in watermelon production.



FIGURE 1: IN-M1-treated watermelon field

## STUDY RESULTS

- ◆ Yield increases of 26.75% lbs/acre.
- ◆ Total fruit count for the treated group was 18.4% higher than the Grower Standard, with treated vines producing 54.3% larger fruit of 30-45 ct.
- ◆ Treated fruits were heavier, averaging 10.5% higher in individual weights.
- ◆ Vigor ratings were 22.5% better in treated plots.
- ◆ Brix were slightly higher in the treated group showing that IN-M1 increases fruit size, yield and weight without affecting the total soluble solids in the fruit.



■ CHECK ■ CONCENTRIC PROGRAM

\*Values in the same comparison followed by the same letter are not significantly different according to Fisher's LSD

FIGURE 2: Vigor rating: 1 = dead; 5 = avg.; 9 = extremely vigorous

UGA VIGOR RATINGS

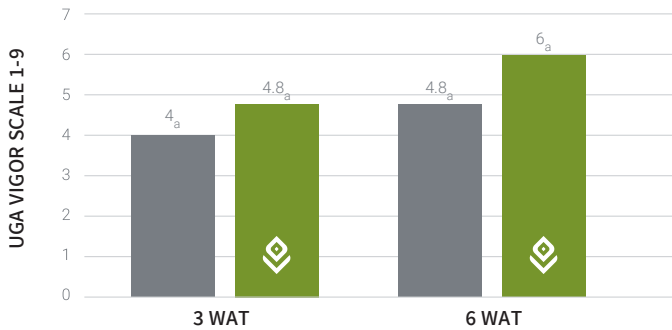


FIGURE 3: Total weight of harvest by fruit size category

WATERMELON YIELD BY SIZE

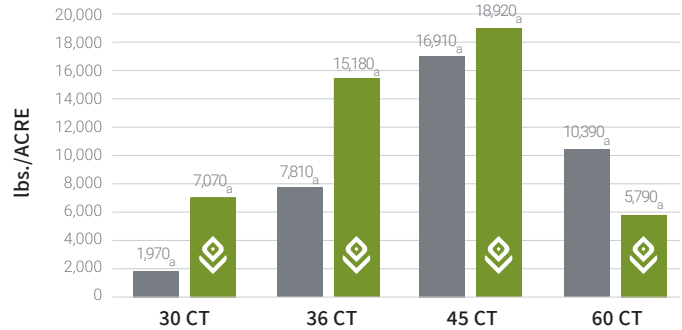


FIGURE 4: Harvest assessments

WATERMELON ASSESSMENTS

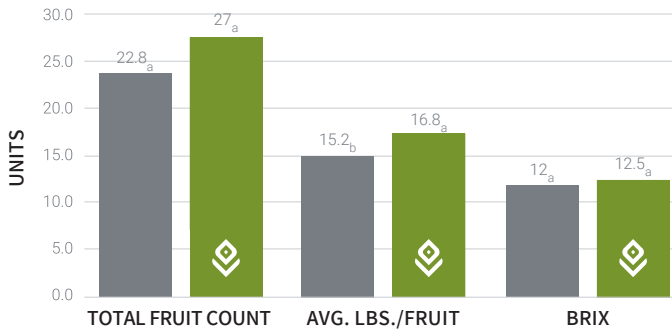
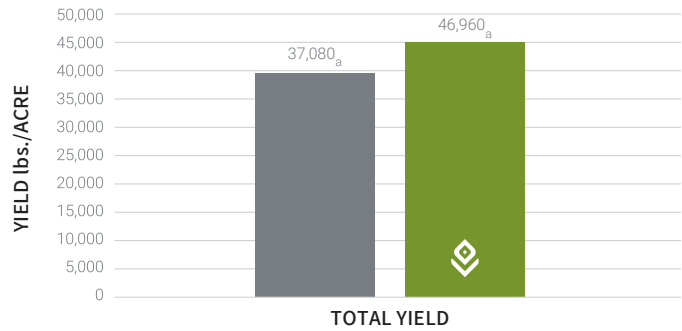


FIGURE 5: Total yield measurements

TOTAL YIELD lbs./ACRE



IN-M1 (currently labeled as GARDEN SOLUTION® in the U.S. and SYNERGRO® in Canada) is a microbial technology for growers that sustainably improves plant health, boosts root and plant vigor, and increases yield, consistency and quality. It is designed to be active across a diverse range of high-value produce, geographies and for all types of modern growing systems from field to greenhouse to hydroponics, for both organic and conventional growers. More robust plants can better deal with the challenges of production agriculture, including transplantation of seedlings, poor soil, extreme weather and other biotic and abiotic stresses.

[WWW.CONCENTRICAG.COM](http://WWW.CONCENTRICAG.COM)



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