



FIELD TRIAL RESULTS AND RECOMMENDATIONS

2017 SEASON

MANDARIN ORANGE TRIAL WITH SYNTECH RESEARCH

TRIAL DESIGN

- ◆ The trial was conducted by SynTech Research in Sanger, California, on W. Murcott Afourer-variety Mandarin oranges.
- ◆ The trial utilized a randomized complete block design with six replications.
- ◆ Applications were made via drip irrigation at first full irrigation (April 4), mid-season (June 19) and near final irrigation (August 4). The five treatments were as follows:
 - » Untreated control
 - » SYNERGRO FREE[™] - 4 oz/acre
 - » SYNERGRO FREE[™] - 8 oz/acre
 - » SYNERGRO FREE[™] - 16 oz/acre
 - » SYNERGRO FREE[™] - 32 oz/acre
- ◆ SYNERGRO FREE[™] is registered for sale, though still undergoing further development to optimize results for the grower. It is based on the same technology and patented process as IN-M1.^{*} While IN-M1 contains living microbes, SYNERGRO FREE[™] does not – it is a cell-free, concentrated product. SYNERGRO FREE[™] at 6.4 oz/acre is roughly the equivalent of 1 gallon/acre of IN-M1.





RESULTS

YIELD PER TREE



6.4 oz/acre of SYNERGRO FREE™ is the rough equivalent of 1 gallon/acre of IN-M1

- ◆ The application of SYNERGRO FREE™ saw a considerable yield increase of 19.8% at 4 oz/acre. There were also yield increases at 16 oz/acre and 32 oz/acre, of 8.2% and 7.8% respectively.

RECOMMENDATIONS

RATE	TIMING
1-2 gallons/acre of IN-M1	Apply via drip irrigation at first full irrigation, mid-season and late season.

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.

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