



FIELD TRIAL RESULTS AND RECOMMENDATIONS

2017 - 2018

APPLE TRIAL WITH QUALLS AGRICULTURAL LABORATORY

TRIAL DESIGN

- ◆ Trial performed with Qualls Agricultural Laboratory in Ephrata, Washington.
- ◆ Apples were of the Scarlett variety, a type of Red Delicious. The trees were planted in April 2011.
- ◆ The trial was randomized complete block design and featured six replications.
- ◆ IN-M1* was applied as simulated drip irrigation at the following rates:
 - » 0.5 gallons/acre, four applications per season
 - » 1 gallon/acre, four applications per season
 - » 0.5 gallons/acre, six applications per season
 - » 1 gallon/acre, six applications per season
- ◆ The trial began in 2017, with applications starting in May and harvest in September. The trial continued in 2018, with the first application on May 7, 2018, and harvest in October.

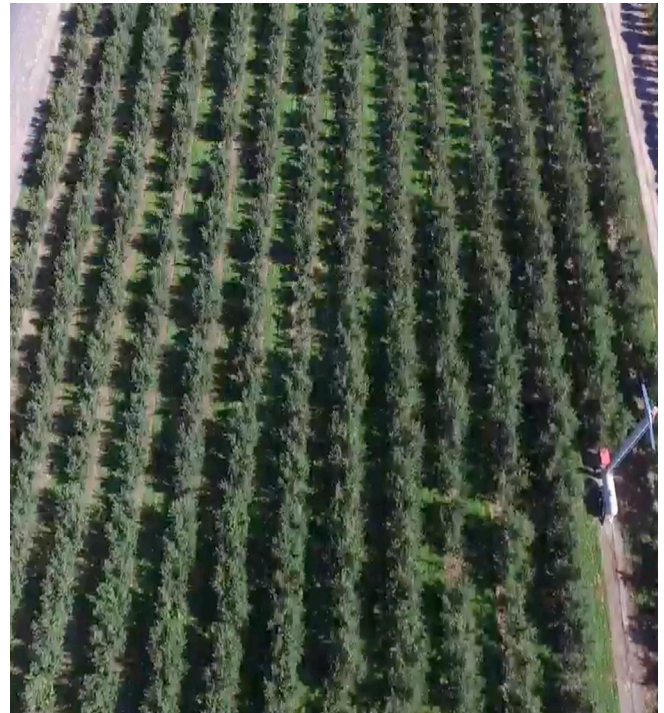


FIGURE 1: Aerial view of the trial site in Ephrata, Washington.

RECOMMENDATIONS

Apply following protocol established in research trial:

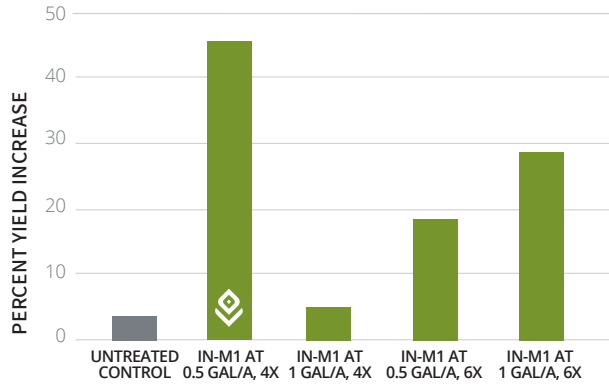
RATE	TIMING
0.5 gallon/acre	Apply four times per season.

*IN-M1 is currently labeled as GARDEN SOLUTION® in the U.S. and SYNERGRO® in Canada.

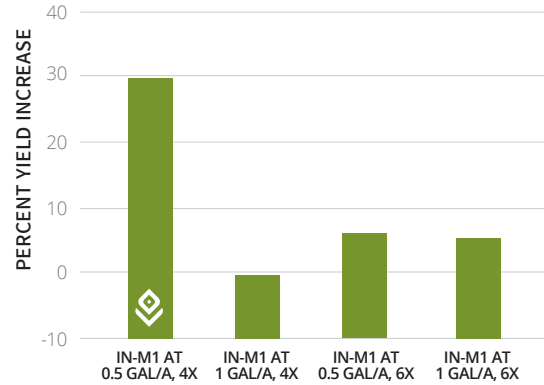


RESULTS

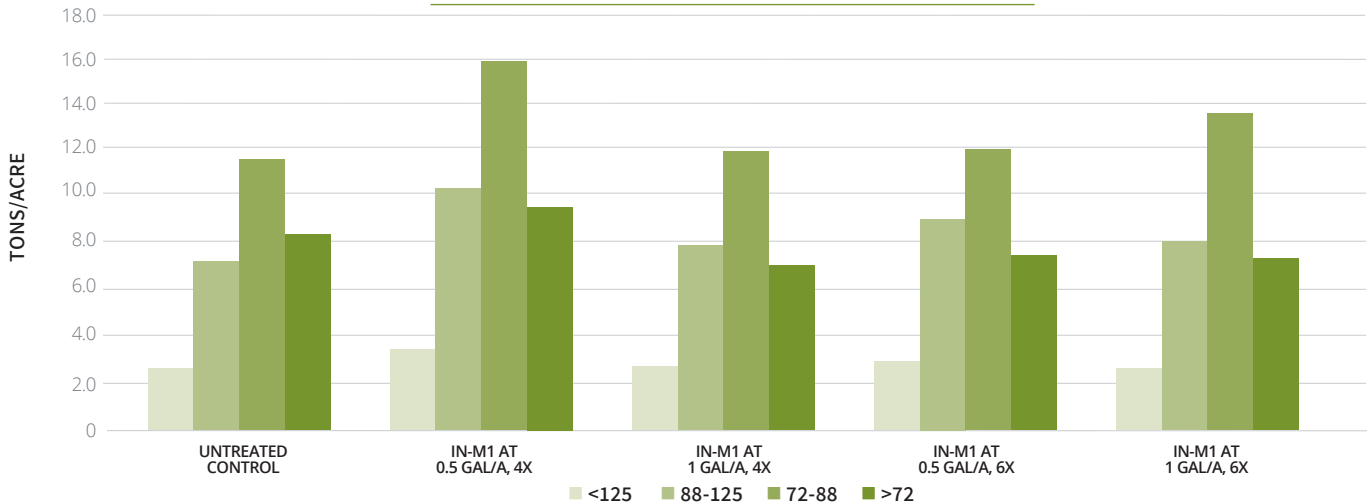
2017-2018 YEAR-OVER-YEAR YIELD INCREASE



2018 YIELD INCREASE OVER CONTROL



YIELD COMPOSITION BY SIZE - 2018



- ◆ All four treatments with IN-M1 showed an increase in yield with two years of treatment.
- ◆ In 2018, three out of four treatments with IN-M1 increased apple yield. At the recommended treatment of 0.5 gallons/acre with four applications, IN-M1 increased yield by 29.2%.
- ◆ All four treatments with IN-M1 showed an increase in the 72-88 size. At the recommended treatment of 0.5 gallons/acre with four applications, there were 15.8 tons/acre of apples in this size range, compared to 11.7 tons/acre in the control.

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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