



FIELD TRIAL RESULTS AND RECOMMENDATIONS

2018 ONION TRIAL

Concentric's IN-M1* was applied in a trial with Qualls Agricultural Laboratory in Ephrata, Washington.

- ◆ The trial utilized a randomized complete block design and involved five treatments, each with six replications.
- ◆ The onions were Calibra variety, and the planting date was April 19, 2018.
- ◆ In addition to a grower standard treatment, applications of IN-M1 were made via simulated irrigation at the following rates:
 - ◆ 1 gallon/acre, 1x/month
 - ◆ 1.5 gallon/acre, 1x/month
 - ◆ 0.25 gallon/acre, 2x/month
 - ◆ 0.75 gallon/acre, 2x/month
- ◆ At harvest (September 14, 2018), onions were graded into four categories: colossal, jumbo, medium, and undersize/culls.



RECOMMENDATIONS

RATE

0.25 gallon/acre

TIMING

Apply every two weeks through irrigation system



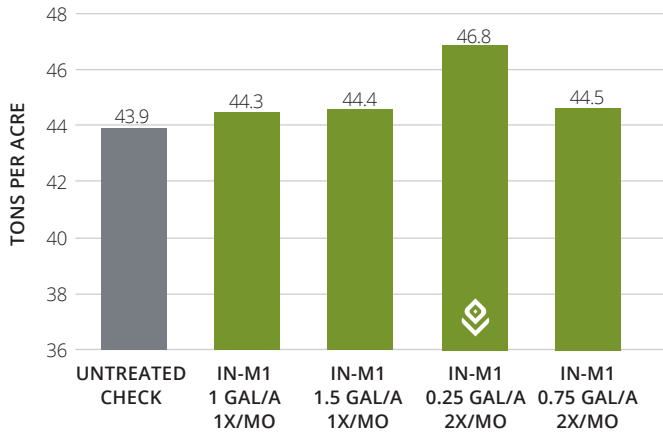
FIGURE 1: Simulated irrigation at the onion trial site

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

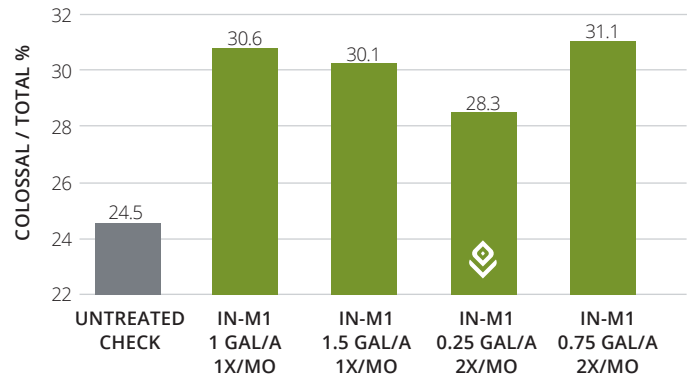


RESULTS

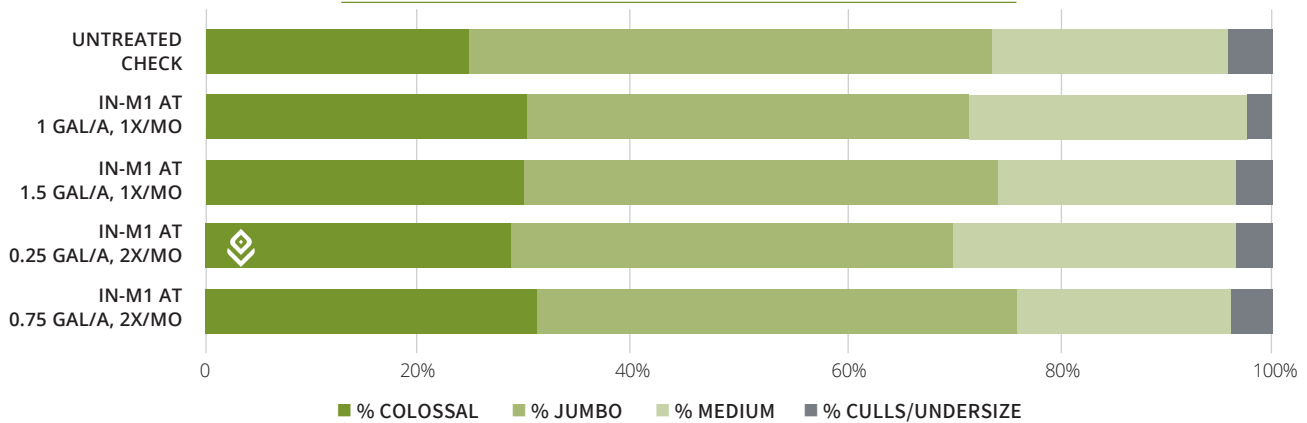
AVERAGE MARKETABLE YIELD



“COLOSSAL” ONION YIELDS



ONION SIZE BREAKDOWN



At the recommended treatment of 0.25 gallons/acre (2x/month), the onions treated with IN-M1:

- ◆ Yielded 5,440 lbs/acre higher than the untreated check, or a yield increase of 5.9%.
- ◆ Produced 22.4% more at the colossal size.
- ◆ Saw a reduction in cull amount by 10.6%, which can be attributed to a combination of reducing undersize bulbs as well as reducing defects (odd shapes, double onion, etc.)

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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