



# FIELD TRIAL RESULTS AND RECOMMENDATIONS

2017 - 2018

## WINE GRAPES TRIAL WITH HOLDEN RESEARCH AND CONSULTING

### TRIAL DESIGN

- ◆ Trial performed through Holden Research & Consulting in Malibu, California, as a completely randomized block with six replications.
- ◆ Grape vines managed in a one-acre vineyard of 20-year-old Pinot Noir.
- ◆ Low rates of fertilizer were used in this trial as the grower uses limited inputs in production. Most nutrients came from the background levels in the soil.
- ◆ The trial took place in both the 2017 and 2018 seasons. In 2018, the grapes were extremely stressed.
- ◆ IN-M1\* was applied directly to the soil through dripper emitters at a rate of 1 gallon/acre. One block received two applications, at shoot extension and four weeks after shoot extension. Another block received four applications: at shoot extension, four weeks after shoot extension, eight weeks after shoot extension, and twelve weeks after shoot extension.

### RECOMMENDATIONS

Apply following protocol established in research trial:

RATE	TIMING
1 gallon/acre (per application)	Apply through a drip irrigation system at shoot extension, again four weeks after first application, and again at post-harvest

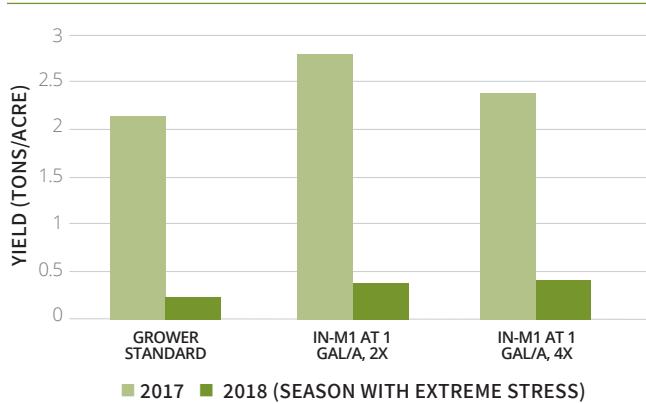
\*IN-M1 is currently labeled as GARDEN SOLUTION® in the U.S. and SYNERGRO® in Canada.



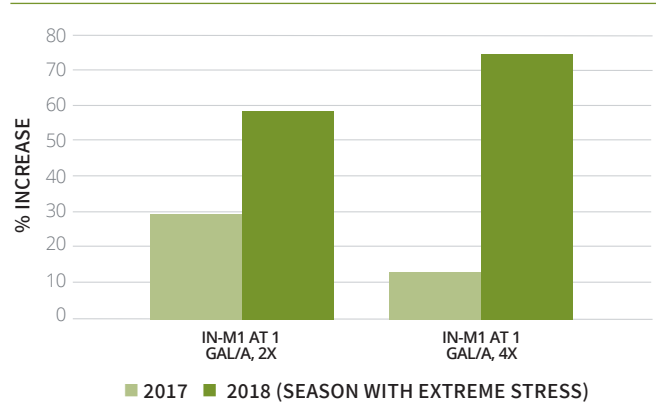


## RESULTS

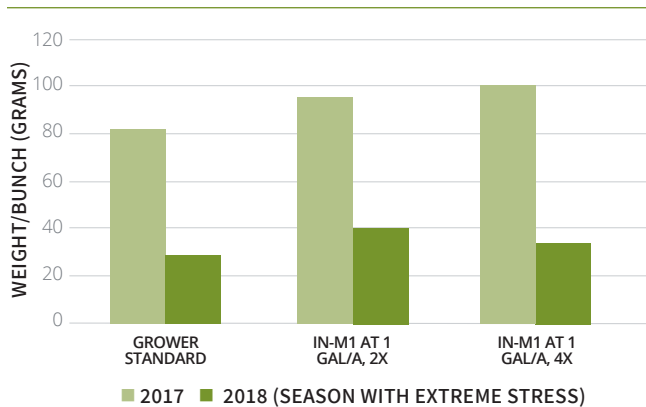
### WINE GRAPE YIELDS



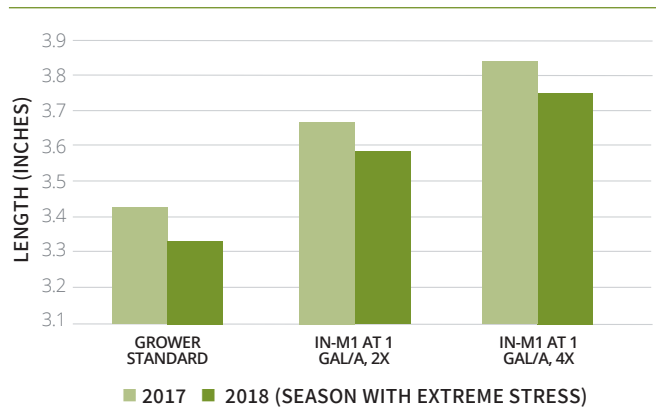
### % YIELD INCREASE OVER GROWER STANDARD



### WEIGHT PER BUNCH



### RACHIS LENGTH



- ◆ The two seasons saw vastly different numbers for yield due to the extreme stress experienced in 2018. The yield increases seen with IN-M1 indicate that the product has a strong effect on plants under severe stress.
- ◆ Due to a healthier plant, the grapes treated with IN-M1 saw increases in both the weight per bunch and the rachis length.

### YIELD RESULTS

Treatment	% Yield increase - 2017	% Yield Increase - 2018
IN-M1 at 1 gallon/acre/month, 2x total	29.6%	58.3%
IN-M1 at 1 gallon/acre/month, 4x total	12.7%	75%

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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