

# A BETTER NUTRIENT BLEND

Innovation has always been at the heart of the J.R. Simplot Company. And with our new high-grade OneUP™ liquid fertilizer, that commitment to constant improvement has been brought to a whole new level.

No other fertilizer on the market combines the same advanced technologies. OneUP™ is both a plant stimulant and soil builder, rich in low-salt liquid and featuring advanced photosynthesis and hormone uptake technologies. The proprietary nutrient blend will help producers boost yields—and profitability.

#### Guaranteed analysis:

4-14-5 with 0.05% Cu and 0.70% Zn



## Trial Data Summary on Cherries and Grapes

#### Introduction

Agronomist Stephen S. Deitz of Sawtooth Ag Research ran two-season field trials on sweet cherries (Prunus avium) and table grapes (Vitis vinifera). The two-season trial evaluated effects of a new fertilizer product, Simplot OneUP™, on yield of orchard and vineyard crops.

#### Background

OneUP™ is designed to produce stronger root systems, increased yield, and improved soil health. It can be applied on or near the roots or used as a foliar application midseason. Testing was needed to determine its effectiveness in increasing yields in the vineyards and orchards of Western America.

#### Methods

The treatments were delivered to the plants with a combination of foliar and soil applications throughout the season. Each study was a randomized complete block design with multiple replications.

#### Results

Application of OneUP™ increased grape yield by 21% (132 more boxes/acre), berry size by 7%, and quantity of #1 bunches by 38%. In cherries, application produced 21% more large fruit and 50% less small fruit when compared with the untreated plots. With a \$15/box premium for fruit size increases, OneUP increased the cherry grower's returns by an average of \$650/acre.







### Cherry OneUP™

Sweet Cherry (Prunus avium) Location: Plainview, CA

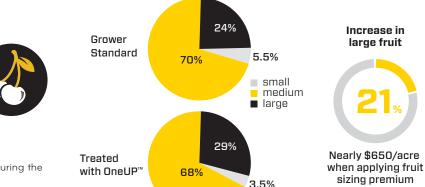
Investigator: Sawtooth Ag Research-Stephen S. Deitz

Study Design: Randomized complete block-replicated Soil: Sandy loam

#### OneUP™ Treatments:

A total of 10 gallons + 3 quarts per acre of OneUP™ was applied during the

growing season (see details below).



21% Increase

Fruit sizing

Summary: A two-season-long program of OneUP™ was applied to mature cherry (cv. Tulare) to evaluate yield and crop response. OneUP™ was applied at bloom and post bloom at 1 and 2 gts/ac in a foliar application program. Additional 5 gal/ac drench applications were made to the soil while irrigation was running at bloom and again 30 days later. Foliar applications were made with a Stihl mistblower and delivered at 100 gpa. Each plot consisted of four trees and each treatment was replicated four times.

Conclusions: While the OneUP™ applications provided a modest yield increase (3%), the treated fruit showed 21% more large fruit and half as much smaller fruit when compared to the untreated plots. When applying a \$15 premium per box to medium-size fruit over small fruit and a similar premium of large fruit over medium sized fruit, OneUP™ plots returned roughly an average of \$650/acre more each year to the grower.

## Grapes OneUP™

Table Grape (Vitis vinifera)

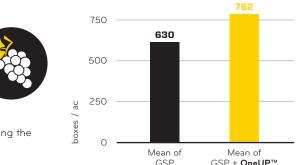
Location: Delano, CA

Investigator: Sawtooth Ag Research-Stephen S. Deitz Study Design: Randomized complete block—replicated

OneUP™ Treatments:

A total of 11 gallons + 1 quart per acre of OneUP™ was applied during the

growing season (see details below).





OneUP™ berry size: 313 g/50 berries

Summary: A two-season-long program of OneUP™ was applied to mature table grapes (cv. Crimson) to evaluate yield and crop response. OneUP™ was applied five times throughout the season at 10 inches of growth, petal fall, and twice at berry sizing five days apart. Foliar applications were made with a mistblower and delivered at 1 gt/ac for the first treatment and 2 gt/ac twice. Soil drench applications were made at a 5 gal/ac twice. Each plot consisted of four vines, and each treatment was replicated six times.

Conclusions: Incorporating OneUP™ into a table grape program over two seasons showed a 132 box per acre increase (21% increase) in yield when compared with the untreated. More importantly, OneUP™ treated vines showed an increase (38%) in #1 bunches and this was also reflected in the berry size data. Yield increases were attributed to heavier berries (7%) and a greater number of bunches.

#### **4R NUTRIENT STEWARDSHIP**

OneUP™ liquid fertilizer promotes and supports 4R Nutrient Stewardship—a best management practice for fertilizer that's accepted worldwide-by applying the right source of nutrients at the right time in the right place and at the right rate.

Find out more about 4R Nutrient Stewardship at: www.NutrientStewardship.com

