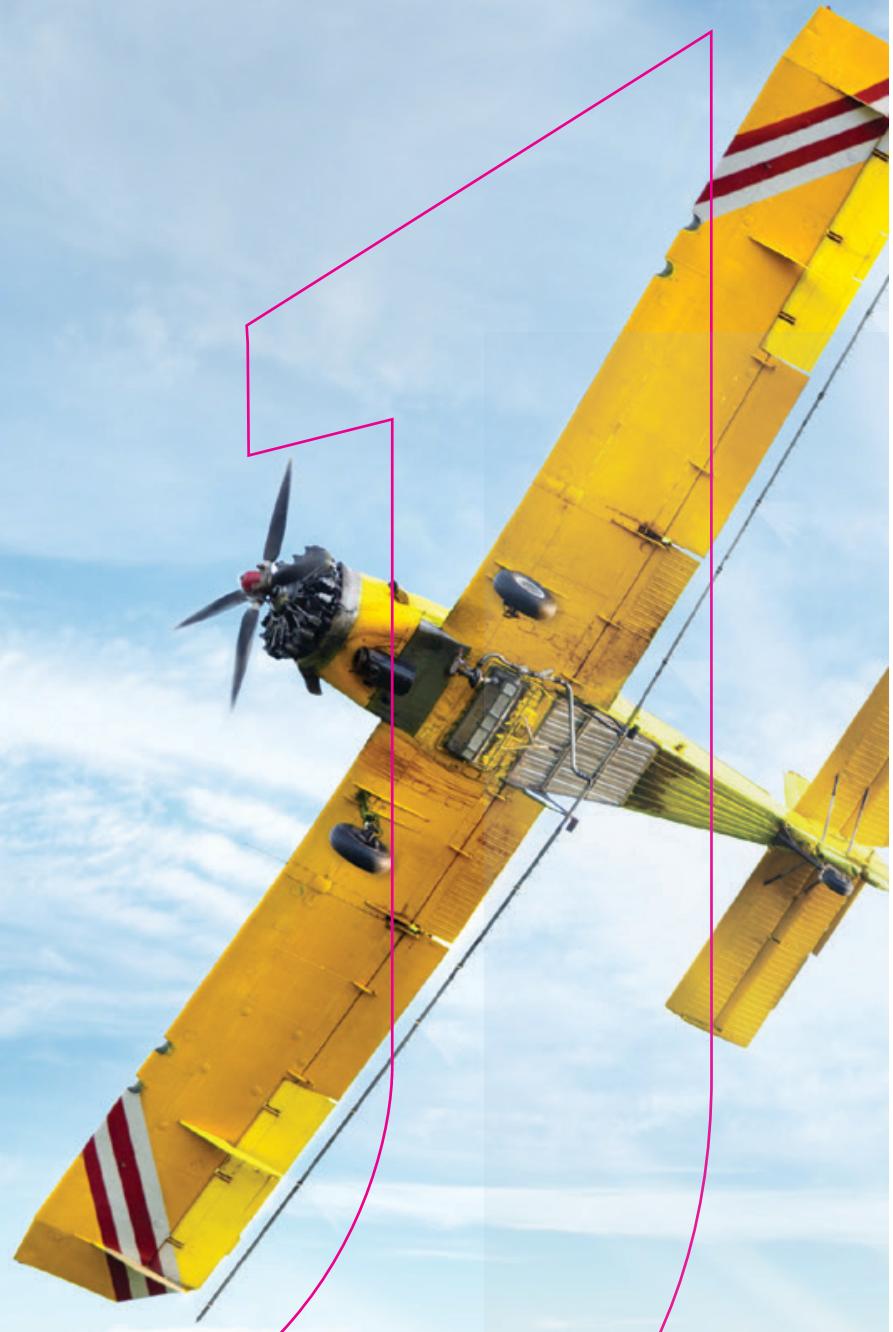




GROWING YOUR
BUSINESS'S
BOTTOM LINE.



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.

ONEUP™ LIQUID FERTILIZER ADVANTAGES

- Highest organic acid load for greater nutrient absorption
- Potassium to support vital plant processes
- Compatible with potassium thiosulfate or ammonium thiosulfate without dilution
- Ability to use near the seed in early season, in-furrow applications
- One stop for soil and foliar application for added versatility
- Product includes no bacteria





oneUP™
by Simplot



GROWING YOUR **BUSINESS'S** **BOTTOM LINE.**

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 nutrient uptake technologies. The proprietary nutrient blend will help producers boost yields – and profitability.

oneUP™
by Simplot

Simplot.com/OneUP



one
UP[™]

A BETTER NUTRIENT BLEND

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Technical Bulletin

Reduces Plugged Nozzles

- Small particle size limits opportunity to plug emitters and spray nozzles.
- Clogged spray nozzles and emitters can disrupt uniform, efficient delivery of nutrients and pesticides, limiting your crop's yield potential.

Benefits of a "Low Salt" Base

- Fertilizers add salt to the soil that draw moisture away from seedlings and can cause injury to the growing crop.
- OneUP is manufactured using high quality inputs, creating a low salt index to maximize plant safety.
- With a low-salt index the nutrients can be placed near or on the seed and used in foliar applications with a reduced chance of injury on most crops.

Guaranteed Analysis

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

For specific recommendations, consult a qualified crop advisor or agronomist.

Benefits of Humic and Fulvic to the Soil

- Adds carbon content to the soil, which helps stimulate microbial metabolic activity and aids with nutrient utilization in the crop.
- Improves soil structure and builds pore space for better aeration, water flow and water distribution – enabling roots to access nutrients more readily.

Nitrogen Uptake

- Less than 50% of applied nitrogen is fully utilized.
- When you lose nitrogen, you lose yield.
- OneUP™ delivers a metabolic precursor which increases the rate of photosynthesis and boosts cell division.
- OneUP™ enables the crop to assimilate nitrogen more efficiently by increasing carbon fixation and plant metabolism.

Simplot

P.O. Box 70013 | Boise, ID 83707 | 800-635-9444 | www.Simplot.com



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Cherry OneUP™

Sweet Cherry (*Prunus avium*)

Location: Plainview, CA

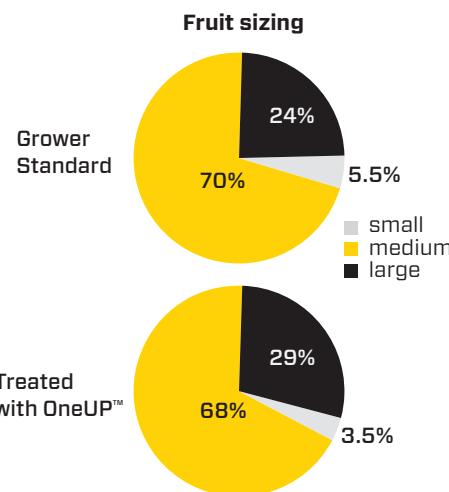
Investigator: Sawtooth Ag Research—Stephen S. Deitz

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).



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 qts/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*)

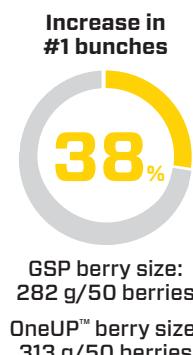
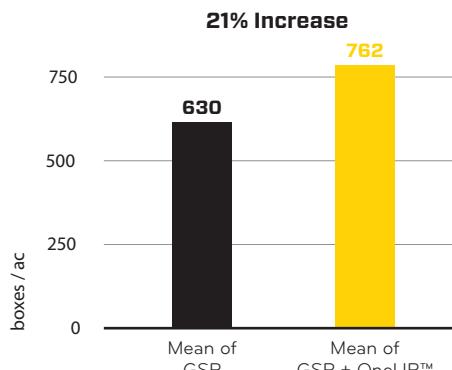
Location: Delano, CA

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).



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 qt/ac for the first treatment and 2 qt/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

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



Almonds OneUP™

Sweet Almond

Location: Poplar, CA

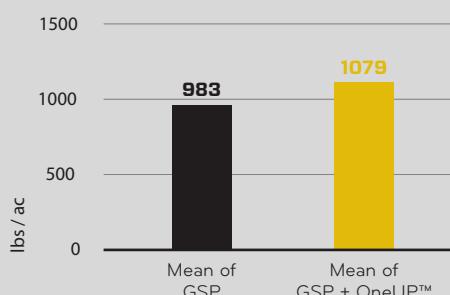
Investigator: Sawtooth Ag Research—Stephen S. Deitz

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).



Yield Increase

10%

100 lbs/ac

Summary:

A two-season-long program of OneUP™ was applied to 20-year-old almond trees (cv. Nonpareil) to evaluate yield and crop response. OneUP™ was applied at bloom and post bloom at 1 and 2 qt/ac in a foliar application program. In addition, OneUP™ was applied twice as a drench at 5 gal/ac to the soil while irrigation was running at nut sizing stages just after jacket split and again 30 days later. Foliar applications were made with a mistblower and delivered at 100 gal/ac. Each plot consisted of four trees, and each treatment was replicated four times. Yield data was taken by sampling harvested nuts in the windrow and determining the number of nuts per plot. A 100-nut sample was taken from each plot and cracked out for turnout and meat weights. The untreated plots were found to have nut population of 28.7 nuts per sq./ft. (not in a windrow) and nut meat weight of 1.08 g/nut, corresponding to yield of 983 lbs/ac of nut meats. OneUP™ treated trees averaged 34.5 nuts per sq./ft., nut meat weights of 1.05 g/nut, and corresponding yield of 1,079 lbs/ac.

Conclusions: This site had almond trees with very consistent trunk measurements. 2016 yield in this block was characterized by a light set. The untreated trees showed a light yield at 983 lbs/ac. The OneUP™ program applied in this block showed a 100 lb/ac yield increase (10%) over grower standard and still maintained nut weight.

Citrus OneUP™

Cara Cara Navel

Location: Elderwood, CA

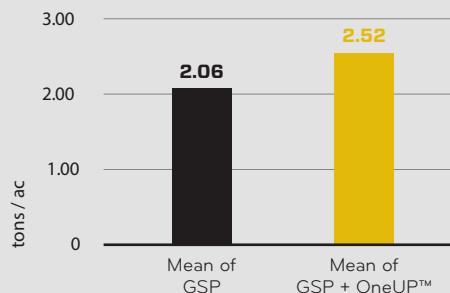
Investigator: Sawtooth Ag Research—Stephen S. Deitz

Study Design: Randomized complete block—replicated

Soil: Clay loam

OneUP™ Treatments:

A total of 10 gallons + 3 quarts per acre of OneUP™ was applied during the growing season (see details below).



Yield Increase

19%

.46 tons/ac—920 lbs/ac
15.8 more fruit/ac
(136.3 vs. 120.5)

Summary:

A season-long program of OneUP™ was applied to fourth leaf citrus (cv. Cara cara navel) to evaluate yield and crop growth. OneUP™ was applied at bloom and petal fall at 1 and 2 qt/ac in a foliar application. An additional 5 gal/ac soil drench was made twice with irrigation at bloom and fruit size. The foliar applications were made with a mistblower and delivered at 100 gal/ac. Each plot consisted of four trees, and each treatment was replicated four times. The untreated plots averaged 120 fruit per plot weighing 61.4 lbs with average fruit weight of 0.51 lbs. OneUP™ treated trees averaged 136 fruit per plot weighing 75 lbs with an average fruit weight of 0.56 lbs.

Conclusions: This site started (and ended) with citrus trees in the fourth season with very consistent trunk measurements and tree sizes. The OneUP™ program applied in this block showed a 920 lb/ac yield increase (19% increase over grower standard). Trees treated with OneUP™ also had 10% heavier fruit when compared with grower standard.

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Trial Data Summary

OneUP™ is a new fertilizer product designed to produce stronger root systems, increased yield and improved soil health. Field trials evaluating the effects of OneUP™ were conducted on crops grown in the Intermountain and Pacific Northwest, including onions, sugar beets, corn, and potatoes.

The treatments were delivered to the fields through a combination of foliar and soil applications at varying rates to test the effectiveness of OneUP™. The results demonstrated improved yields and quality when incorporating OneUP™ into the fertility program.



Onions OneUP™

Location: Sand Hollow, ID

Cooperator: Frisby Farms

Study Design: Replicated paired plot demonstration

Replications: 4

Soil: Sandy loam

OneUP™ Treatments:

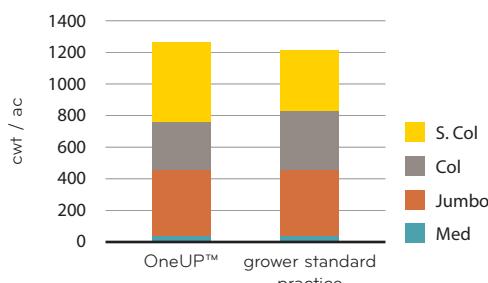
- 4 gallons per acre of grower standard practice was replaced with 4 gallons per acre of OneUP™, in furrow at planting.

Summary:

OneUP™ increased total yields by 5%, but more importantly, yield of super colossals by 22% which resulted in a significant economic advantage.



Onion Yields with OneUP™



**Yield Increase
of Super Colossals**



5% total increase
across the field trials

Corn OneUP™

Location: Nampa, Idaho

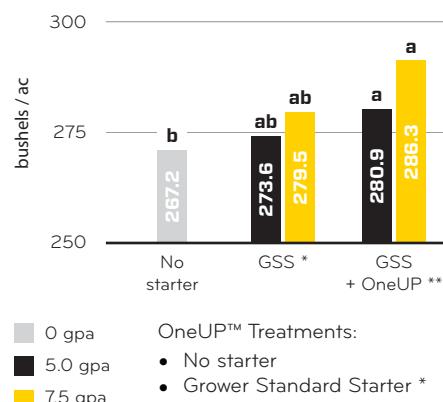
Investigator: Dr. Terry Tindall and Dr. Galen Mooso

Study Design: Plots were approximately 0.5 acres (replication=3)

Starter	Starter Rate gpa	Yield bu/ac	Return @ \$4.09/bu
No Starter	0	267.2	\$1092.85
Grower Standard Starter	5.0	273.6	\$1119.02 (+\$26.20)
Grower Standard Starter	7.5	279.5	\$1128.43 (+\$35.61)
Grower Standard Starter + 1 g of OneUP™	5.0	280.9	\$1148.88 (+\$56.06)
Grower Standard Starter + 1.5 g of OneUP™	7.5	286.3	\$1170.97 (+\$78.15)



Evaluation of OneUP™ with 6-24-6 with AVAIL® as a In-Furrow Starter for Corn Production



Yield Increase



Potatoes OneUP™

Location: Eltopia and Basin City, Washington

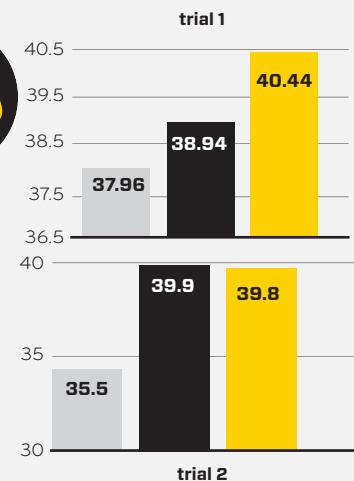
Cooperators: Simplot Grower Solutions

Study Design: All potatoes were recovered from five randomly selected strips measuring 7.5' throughout the treated area via hand digging. These samples were then graded by AgWorld Labs in Pasco, WA. Plot Size: 17 acres (trial 1) 20 acres (trial 2)

Soil: Sandy loam

OneUP™ Treatments: In addition to grower standard practice

- 3 gallons per acre in furrow at planting
- 5 gallons per acre in furrow at planting
- 2 quarts through center pivot at row closure (trial 1 only)



Avg. Yield Increase



Sugar Beet OneUP™

Location: Billings, Montana

Investigator: Neal E. Fehringer, Certified Professional Agronomist, C.C.A.

Study Design: Plot size: 4 rows (22" spacing) x 30 ft.

4 replications per treatment.



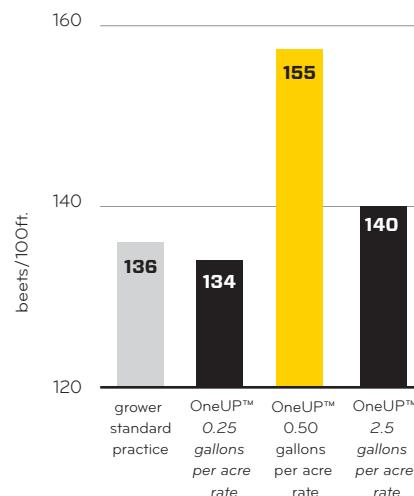
OneUP™ Treatments tested (versus 2.5 gpa of 6-24-6 in furrow):

- 0.25 gallons per acre in furrow + 2 quarts/ac foliar applied at 3-4 leaf stage.
- 0.50 gallons per acre in furrow + 2 quarts/ac foliar applied at 3-4 leaf stage.
- 2.5 gallons per acre in furrow + 2 quarts/ac foliar applied at 3-4 leaf stage.

Summary:

- Products were applied in furrow at 6 gallons per acre total volume. No issue with plugging orifices or build-up on 100 mesh screens.
- OneUP™ applied foliar via backpack sprayer in 10 gpa total volume.
- Soil test Olsen P was 13 ppm, organic matter was 3.7% and zinc was 1.0 ppm.
- Beets were planted by standard 4 row planter at 250 seeds per 100 feet.
- 0.50 gallons per acre OneUP™ rate performed best of all treatments

Harvestable Beets (>3 inches)



Yield Increase



OneUP™ increased sugar/ac vs standard starter at a decreased application rate (.50 gpa vs 2.5 gpa)

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For more information on OneUP™ visit
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