



Potassium Source Comparison on 'Perlette' Grapes

Indio, CA

Experiment Info:

Planted:	1/1/2009
Harvest:	5/9/2016
Yield Goal:	0
Target Fert.:	Potassium
Variety:	0
Population:	2020
Row Width:	
Prev. Crop:	0
Plot Size:	
Replications:	

Soil Test Values (ppm):

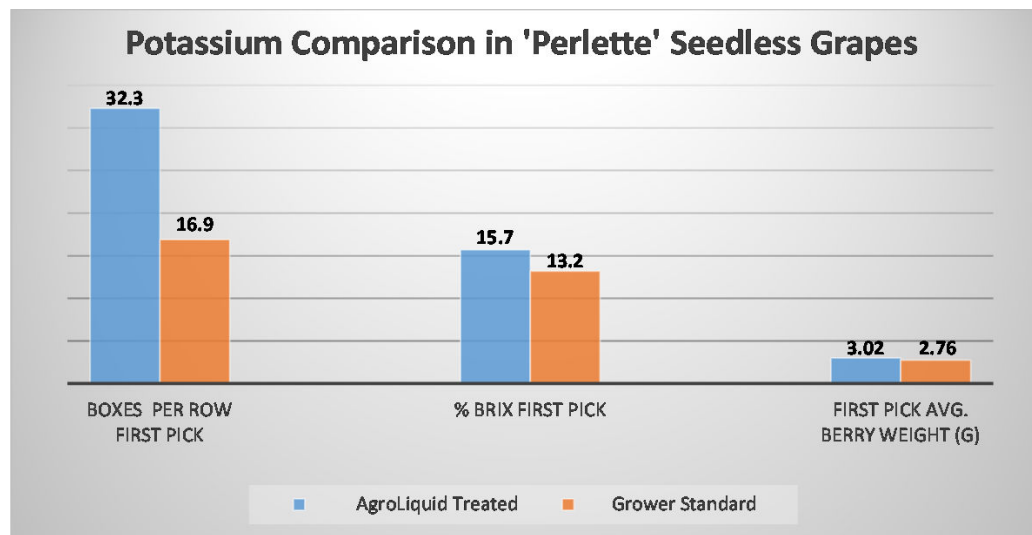
pH:	
CEC:	
%OM:	
Bray P1:	
Bicarb P:	
K:	
S:	
%K:	
%Mg:	
%Ca:	
%H:	
Zn:	
Mn:	
B:	

Objective:

Objective: Determine if AgroLiquid SureK plus foliar supplements could replace 200 lbs/A of grower applied potassium thiosulfate and increase the yield of the first pick. The crop was 'Perlette' seedless grapes.

Treatments were applied through four drip irrigations beginning on March 14, 2016 through April 25. Each of these applied 5 gallon/A of Sure-K to the AgroLiquid block. During this time, a single foliar treatment of 2 qt/A of Sure-K + 2 qt/A of Fase 2 + 4 oz/A of Protristim was applied. (Note: Protristim is no longer available).

The grower standard of 200 lb/A of potassium thiosulfate was similarly applied in four drip applications of equal volume. At first pick harvest, the number of boxes (48 lb) of grapes produced from an equal row was recorded. Additionally, random bunches of grapes were collected from each block for determination of average berry weight as well as Brix (sugar content measurement).



Sugar up 19%, Early pick maturity up 81%, berry size up

Conclusions:

The AgroLiquid program resulted in a 91% yield increase at the first pick (32.3 vs 16.9 boxes per row). In fact, the AgroLiquid block had 2020 vines vs 2592 in the conventional block and still had a higher yield on less vines. So the yield difference is all the more remarkable. This is certainly due to enhanced maturity enabling a larger first harvest vs the standard of potassium thiosulfate. Based on the grape market at that time, this allowed the grower to take advantage of the early market price \$40 per box. This resulted in \$7,560 dollar increase from the AgroLiquid treated block vs the grower standard. This first harvest is further enhanced by a higher Brix (sweeter) and average berry weight. The later harvested boxes averaged \$14 per box. But the grower noted that he received a premium average of \$19 on the second picking of grapes from the AgroLiquid treatment side because of larger premium grape size. This shows the advantage of well-timed applications of highly usable plant nutrition found with AgroLiquid.