



# KhushFul TRIAL REPORT: WINE GRAPES

(3-0-8)

## Introduction

KhushFul (3-0-8) is a bio-mineral based liquid foliar fertilizer powered by plant extracts. It turns knowledgeable growers into successful ones, by boosting the power of nutrients with plant extracts to produce a great yield of a healthier and high quality crop.

A unique product that combines plant based biostimulants with essential macro & micro nutrients to help strengthen crop vitality and improved response to growing stresses.

This report details a two year (2017 & 2018) randomized trial on Cabernet variety wine grapes grown in a commercial vineyard operated by J.D. Farming in Paso Robles, CA.

## Methods

KhushFul (3-0-8) was applied at various crop stages during the growing season on experimental plots of one row of 5 grape vines planted on 6' spacing with 11' row spacing replicated 4 times in a RCB design. This was a 2 year trial, identical treatments were applied to the same vines as the previous year. The vineyard manager maintained the trial area identically to the remainder of the vineyard in terms of cultural and nutritional inputs.

## Experimental Conditions

Trial Year	1 Full Bloom	2 Pea Size Berry	3 Berry Touch	4 Bunch Closure	Total /Acre
2017	1qt	1qt	1qt	1qt	1Gal
2018	1qt	1qt	1qt	1qt	1Gal

KhushFul

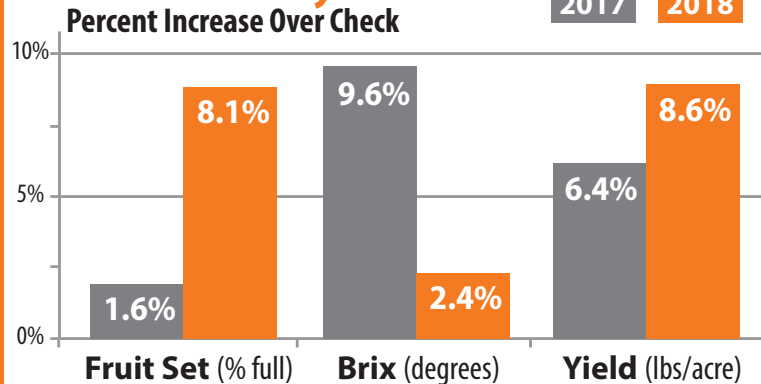


2 YEAR TRIAL REPORT

## Results & Conclusion

The addition of KhushFul helped improve quality of the grapes (Brix) but also increased the yield both years (at least 5 % both years) with a larger improvement the second year due to multiple year growth benefits.

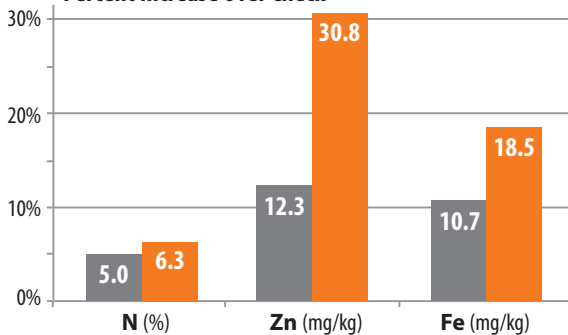
### Harvest Analysis



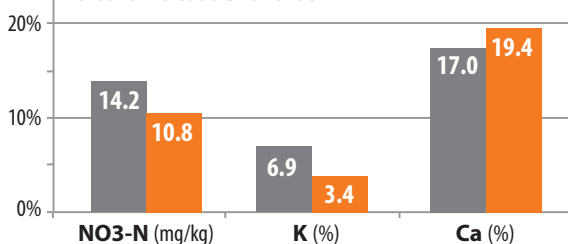
At market prices<sup>1</sup> the yield increase amounts to an improvement of approximately **\$572/acre in 2017** and **\$433/acre in 2018**.

<sup>1</sup>Market prices for Cabernet grapes were \$1500/ton.

### Leaf Blade Analysis



### Petiole Analysis



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## EXTENDED ANALYSIS



**Total Nitrogen** ..... 4.5%  
Total Organic Nitrogen (2.6%)  
**Total Potassium** ..... 9.6%  
**Boron** ..... 0.05%  
**Chelated Zinc** ..... 0.5%

**Hydrophobic Fulvic Acid** ..... 3.6%  
**Sulphur** ..... 0.065%



### LEAF BLADE ANALYSIS 7 Days post 4th foliar application

	<b>N</b> (%)	<b>P</b> (%)	<b>K</b> (%)	<b>Zn</b> (mg/kg)	<b>Mn</b> (mg/kg)	<b>Na</b> (%)	<b>B</b> (mg/kg)	<b>Ca</b> (mg/kg)	<b>Mg</b> (%)	<b>Fe</b> (mg/kg)	<b>Cu</b> (mg/kg)
Untreated - 2017	2.4	0.12	0.55	65	111	0.01	44	2.18	0.33	177	4
<b>KhushFul - 2017</b>	<b>2.52</b>	0.14	0.52	<b>73</b>	103	0.02	49	2.14	0.32	<b>196</b>	4
Untreated - 2018	2.4	0.14	0.69	52	130	0.01	65	2.25	0.32	195	5
<b>KhushFul - 2018</b>	<b>2.55</b>	0.14	0.69	<b>68</b>	119	0.01	64	2.04	0.31	<b>231</b>	5

### PETIOLE ANALYSIS 7 Days post 4th foliar application

	<b>NO<sub>3</sub>-N</b> (mg/kg)	<b>P</b> (%)	<b>K</b> (%)	<b>Zn</b> (mg/kg)	<b>Mn</b> (mg/kg)	<b>Na</b> (%)	<b>B</b> (mg/kg)	<b>Ca</b> (%)	<b>Mg</b> (%)	<b>Fe</b> (mg/kg)	<b>Cu</b> (mg/kg)
Untreated - 2017	579	0.28	1.74	40	82	0.03	32	2.35	0.61	90	2
<b>KhushFul - 2017</b>	<b>661</b>	0.19	<b>1.86</b>	42	78	0.03	34	<b>2.75</b>	0.64	59	2
Untreated - 2018	592	0.22	2.04	32	89	0.02	38	2.17	0.6	33	2
<b>KhushFul - 2018</b>	<b>656</b>	0.18	<b>2.11</b>	28	85	0.02	38	<b>2.59</b>	0.59	41	2

### HARVEST ANALYSIS

	<b>Count</b> (Number)	<b>Fruit Set</b> (% Full)	<b>Yield</b> (Lbs)	<b>Yield (@ \$1500/ton)</b> (\$/Acre)	<b>Brix</b> (Degree)	<b>pH</b> (pH)	<b>TA</b> (g/100mL)
Untreated - 2017	54.8	94.1	18.125	\$8972	19.7	3.16	0.85
<b>KhushFul - 2017</b>	54.6	<b>95.6</b>	<b>19.281</b>	<b>\$9554</b>	<b>21.6</b>	3.2	0.88
Untreated - 2018	41	90.4	10.156	\$5027	20.9	3.24	0.7
<b>KhushFul - 2018</b>	41	<b>97.7</b>	<b>11.031</b>	<b>\$5460</b>	<b>21.4</b>	3.4	0.56