

# IAS Laboratories

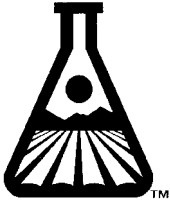
2515 East University Drive  
 Phoenix, Arizona 85034  
 (602) 273-7248

## SOIL ANALYSIS REPORT

Today's Date: 11/13/2009  
 Grower: Greg Gonnerman  
 Submitted By: Greg Gonnerman  
 Send Report To: Greg Gonnerman  
 Report Number: 6636621  
 Crop: Grapes  
 Date Received: 11/9/2009

VL = Very Low  
 L = Low  
 M = Medium  
 H = High  
 VH = Very High

Sender Sample Id	Depth	Lab #	pH	Calcium (Ca) PPM	Magnesium (Mg) PPM	Sodium (Na) PPM	Potash (K) PPM	Iron (Fe) PPM	Zinc (Zn) PPM	Manganese (Mn) PPM	Copper (Cu) PPM	Salinity (EC x K) dS/m	Nitrate Nitrogen (NO3-N) PPM	Phosphorus (Bicarb - Soluble P) PPM	Computed % Sodium (ESP)	Sulfur (SO4-S) PPM	Boron (B) PPM	Free Lime Level
SANTAN		910	8.2	5100 VH	250 H	240 H	420 VH	4.5 M	.61 L	8.5 VH	.94 H	2.4 M	13.0 M	7.2 L	3.5	34 VH	.33 L	High
SUPERSTITION		911	8.1	4900 VH	350 VH	180 M	330 VH					1.8 L	1.4 VL	13.0 M	2.7			High
USERYPAS S		912	8.5	4700 VH	230 H	89 L	530 VH					1.0 L	21.0 H	20.0 H	1.4			High



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## SOIL FERTILITY RECOMMENDATIONS

**Lb/1000 Sq Ft**

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Sender Number	Crop	Nitrogen N	Phosphate P2O5	Potash K2O	Magnesium Mg	Sulfur S	Iron Fe	Zinc Zn	Manganese Mn	Copper Cu	AMENDMENTS			Lime	Leaching of Excess Salts
											Boron B	Elemental Sulfur	Gypsum		
SANTAN	Grapes	a	.8 b					g			.02 h	5 *			N
SUPERSTI	Grapes	.8 a										5 *			N
USERYPAS	Grapes	a										10 *			N

### Grapes

\*) Till sulfur into the soil to reduce pH. Disper/sul, a sulfur product, dissolves readily and can be used if you can't till. After sulfur addition, when salinity or sodium is high, leach by irrigating with large amounts of water to push sodium below rootzone. Remember, for those who can safely use sulfuric acid, that 40 gallons is equal to 200 pounds of elemental sulfur for pH reduction purposes.

a) None needed preseason. Use petiole analysis to determine when to add more N.

b) If possible, use phosphoric acid with 10% fulvic to improve P uptake.

g) Many varieties of grapes will not take up sufficient zinc from the soil. The best solution is to paint the cut cane ends during pruning season with a solution of one pound zinc sulfate per gallon of water. This painting should be done within an hour of pruning to allow for uptake of zinc. If this is done no foliar or soil applied zinc is necessary.

h) Preseason. Reduce by the amount in the irrigation water. Petiole analysis will indicate when to apply more B. Usually 3 applications are needed. Best if added to the irrigation water. Stem necrosis of the cluster is caused by a lack of B.

N) Growth may be affected when EC (salinity) is above 4 dS/m. Below 4 growth is normally not affected. Remember that salinity and sodium are two different factors and each can affect growth.