

# A & L WESTERN AGRICULTURAL LABORATORIES

1311 WOODLAND AVE #1 | MODESTO, CALIFORNIA 95351 | (209) 529-4080 | FAX (209) 529-4736



REPORT NUMBER: 10-074-048

CLIENT NO: 99999

SEND TO: TANNER CAMPBELL  
1230 SYLVANIA COURT  
SAN LUIS OBISPO, CA 93401-

GROWER:

SUBMITTED BY: TANNER

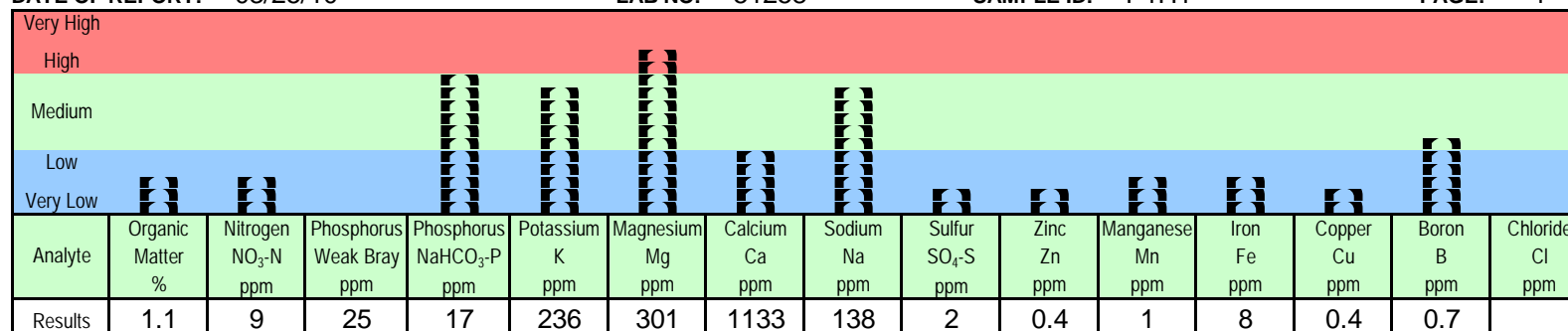
## Graphical Soil Analysis Report

DATE OF REPORT: 03/25/10

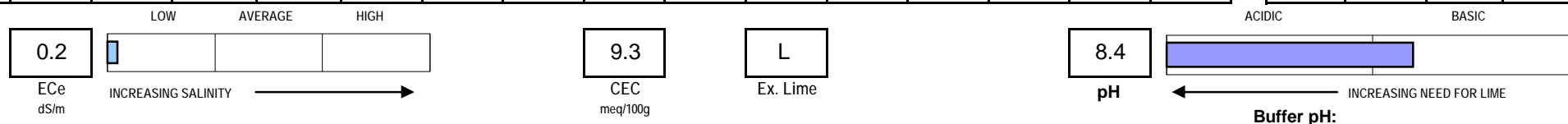
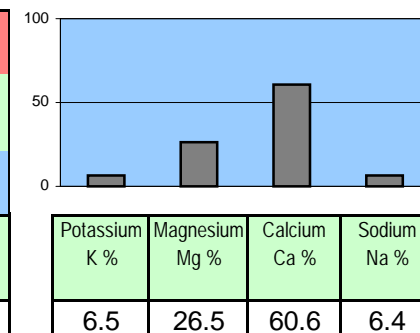
LAB NO: 51258

SAMPLE ID: P1H1

PAGE: 1



Percent Cation Saturation (computed)



Weak Bray P unreliable at M or H excess lime or pH > 7.5

## Soil Fertility Guidelines

CROP: ZINFANDEL

RATE: lb/acre

NOTES:

Dolomite (70 score)	Lime (70 score)	Gypsum	Elemental Sulfur	Nitrogen N	Phosphate P <sub>2</sub> O <sub>5</sub>	Potash K <sub>2</sub> O	Magnesium Mg	Sulfur SO <sub>4</sub> -S	Zinc Zn	Manganese Mn	Iron Fe	Copper Cu	Boron B
		1400	1800	20					10	10			

**C** SOIL SALINITY REPORT does not indicate any severely sodic or saline problems in the soil received.  
**O** However, some soil pH levels may need to be addressed.  
**M** SODIUM: If a concern, broadcast/water-run amendment (incorporate if possible). Approx 1.5 lb elemental S  
**M** or 10 lb gypsum required to replace 1 ppm "exchangeable" sodium from 6 inches of soil.  
**E** ACIDIFICATION of high pH soils could improve soil environment. Compare different sources of acidifying  
**N** materials, but be aware that sulfate-sulfur (as shown on report) has NO acidifying power.  
**T** DEPTH OF SAMPLING: Soil fertility could differ greatly with depth. Concentrate on amending and  
**S** fertilizing the topsoil zone only, but take note of trends down the profile that may need attention.

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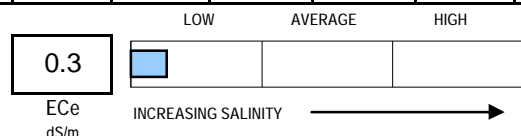
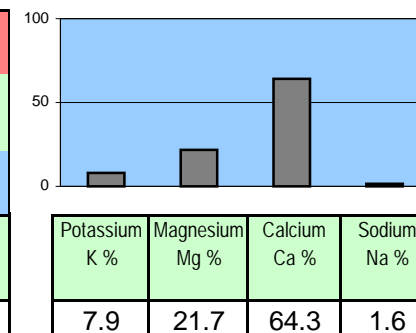
LAB NO: 51259

SAMPLE ID: P1H2

PAGE: 2

	Very High															
	High															
	Medium															
	Low															
	Very Low															
Analyte	Organic Matter %	Nitrogen NO <sub>3</sub> -N ppm	Phosphorus Weak Bray ppm	Phosphorus NaHCO <sub>3</sub> -P ppm	Potassium K ppm	Magnesium Mg ppm	Calcium Ca ppm	Sodium Na ppm	Sulfur SO <sub>4</sub> -S ppm	Zinc Zn ppm	Manganese Mn ppm	Iron Fe ppm	Copper Cu ppm	Boron B ppm	Chloride Cl ppm	
Results	0.8	13	45	12	188	161	784	22	1	1.0	2	15	0.3	0.1		

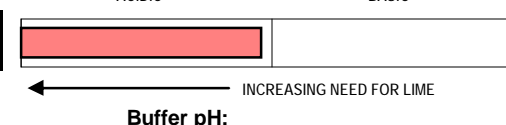
Percent Cation Saturation (computed)



6.1 CEC meq/100g

L Ex. Lime

6.7 pH



## Soil Fertility Guidelines

CROP: ZINFANDEL

RATE: lb/acre

NOTES:

Dolomite (70 score)	Lime (70 score)	Gypsum	Elemental Sulfur	Nitrogen N	Phosphate P <sub>2</sub> O <sub>5</sub>	Potash K <sub>2</sub> O	Magnesium Mg	Sulfur SO <sub>4</sub> -S	Zinc Zn	Manganese Mn	Iron Fe	Copper Cu	Boron B	
				10				25	5	10		10	2.0	

**C** NITROGEN: Use local conditions and experience with variety to determine rates and timing. Allow for  
**O** nitrate levels in your water source also (ppm NO<sub>3</sub> X 0.61 = lb N/ac-ft water). Monitor tissue-N.  
**M** Minimize nitrogen applications prior to bloom, then apply through berry-set, and again immediately  
**M** post-harvest. Later applications are not advised.  
**E** SULFATE-SULFUR: Low soil levels may cause yellowing and lack of vigor. Maintain above 15 to 20 ppm to  
**N** guard against deficiencies. Although, sulfates may have leached below sampling depth.  
**T** ZINC: Maintain soil levels above 1.0 ppm to ensure an adequate zinc supply. A tissue analysis at the  
**S** appropriate time will determine more accurately, availability to the plant.

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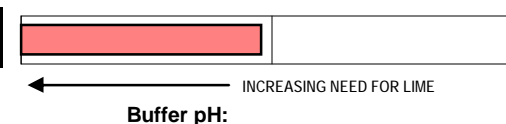
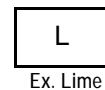
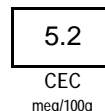
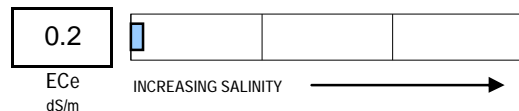
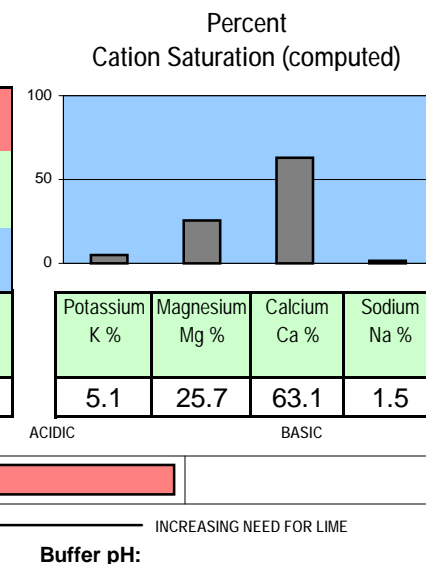
DATE OF REPORT: 03/25/10

LAB NO: 51260

SAMPLE ID: P1H3

PAGE: 3

	Very High															
	High															
	Medium															
	Low															
	Very Low															
Analyte	Organic Matter %	Nitrogen NO <sub>3</sub> -N ppm	Phosphorus Weak Bray ppm	Phosphorus NaHCO <sub>3</sub> -P ppm	Potassium K ppm	Magnesium Mg ppm	Calcium Ca ppm	Sodium Na ppm	Sulfur SO <sub>4</sub> -S ppm	Zinc Zn ppm	Manganese Mn ppm	Iron Fe ppm	Copper Cu ppm	Boron B ppm	Chloride Cl ppm	
Results	0.8	10	32	12	105	164	662	18	1	0.6	1	15	0.3	0.1		



## Soil Fertility Guidelines

CROP: ZINFANDEL

RATE: lb/acre

NOTES:

Dolomite (70 score)	Lime (70 score)	Gypsum	Elemental Sulfur	Nitrogen N	Phosphate P <sub>2</sub> O <sub>5</sub>	Potash K <sub>2</sub> O	Magnesium Mg	Sulfur SO <sub>4</sub> -S	Zinc Zn	Manganese Mn	Iron Fe	Copper Cu	Boron B	
				20		90		25	10	10		10	2.0	

**C** MANGANESE: Soil levels below 2 ppm may respond to applications of manganese. But, first check on tissue levels to confirm any likely deficiencies. Follow label instructions if required.

**O**

**M** COPPER: Soil levels below 0.3 ppm may respond to applications of copper. Follow label instructions or confirm level of availability by tissue analysis.

**M**

**E** BORON: Aim for soil levels above 0.5 ppm to avoid a deficiency. A tissue analysis at the appropriate time will determine more accurately, plant availability. ADD BORON WITH CAUTION.

**N**

**T** ORGANIC MATTER: Low levels may restrict beneficial microbial activity and lead to soil compaction and erosion. Consider the inclusion of appropriate amendments if practical.

**S**

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SUBMITTED BY: TANNER

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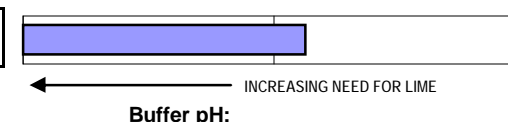
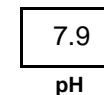
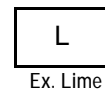
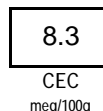
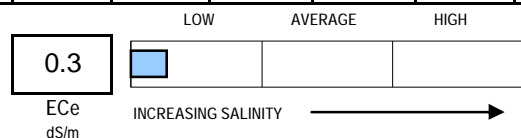
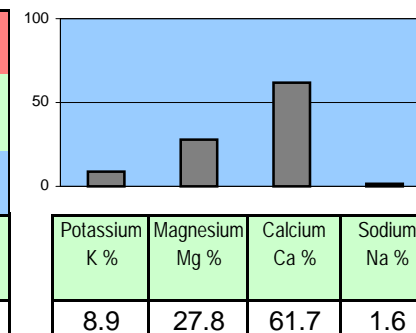
LAB NO: 51261

SAMPLE ID: P2H1

PAGE: 4

	Very High															
	High															
	Medium															
	Low															
	Very Low															
Analyte	Organic Matter %	Nitrogen NO <sub>3</sub> -N ppm	Phosphorus Weak Bray ppm	Phosphorus NaHCO <sub>3</sub> -P ppm	Potassium K ppm	Magnesium Mg ppm	Calcium Ca ppm	Sodium Na ppm	Sulfur SO <sub>4</sub> -S ppm	Zinc Zn ppm	Manganese Mn ppm	Iron Fe ppm	Copper Cu ppm	Boron B ppm	Chloride Cl ppm	
Results	1.4	9	53	50	289	280	1025	31	2	0.6	1	9	0.3	0.6		

Percent Cation Saturation (computed)



Weak Bray P unreliable at M or H excess lime or pH > 7.5

## Soil Fertility Guidelines

CROP: ZINFANDEL

RATE: lb/acre

NOTES:

Dolomite (70 score)	Lime (70 score)	Gypsum	Elemental Sulfur	Nitrogen N	Phosphate P <sub>2</sub> O <sub>5</sub>	Potash K <sub>2</sub> O	Magnesium Mg	Sulfur SO <sub>4</sub> -S	Zinc Zn	Manganese Mn	Iron Fe	Copper Cu	Boron B	
			1100	20					10	10		10		

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FERTIGATION: Light frequent applications of fertilizer through the irrigation water will provide the most efficient uptake of nutrients. Limit applications to active growth periods.  
PLEASE note that the previous comments where applicable, apply to the entire report. Thank you.

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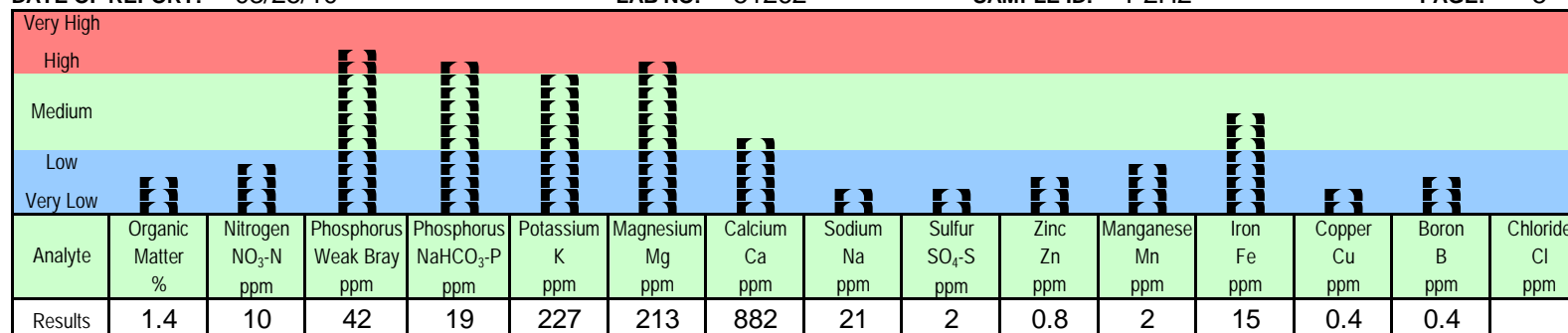
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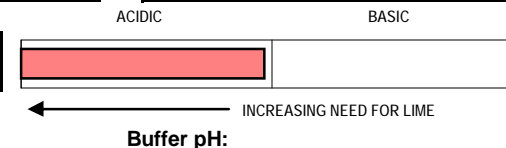
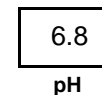
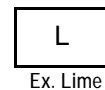
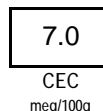
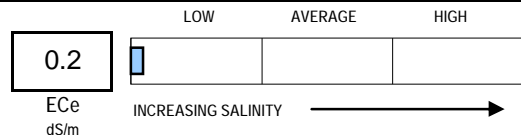
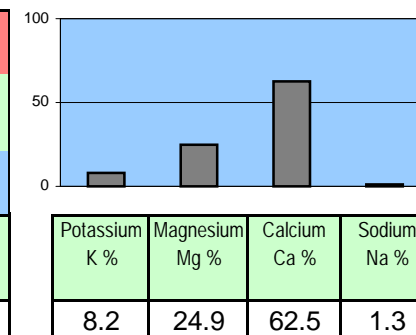
LAB NO: 51262

SAMPLE ID: P2H2

PAGE: 5



Percent Cation Saturation (computed)



## Soil Fertility Guidelines

CROP: ZINFANDEL

RATE: lb/acre

NOTES:

Dolomite (70 score)	Lime (70 score)	Gypsum	Elemental Sulfur	Nitrogen N	Phosphate P <sub>2</sub> O <sub>5</sub>	Potash K <sub>2</sub> O	Magnesium Mg	Sulfur SO <sub>4</sub> -S	Zinc Zn	Manganese Mn	Iron Fe	Copper Cu	Boron B	
				20				25	10	10				

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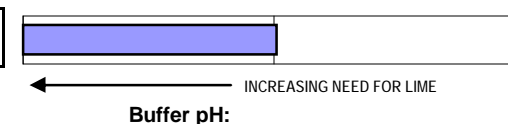
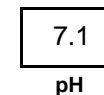
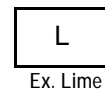
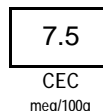
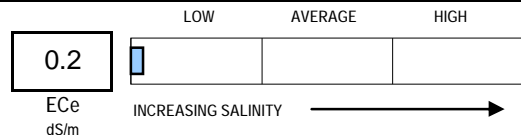
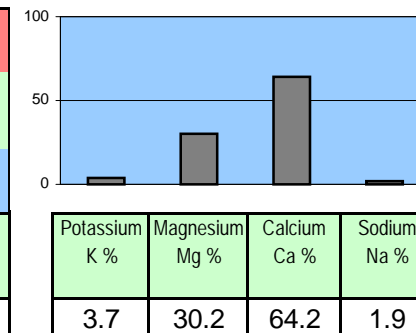
LAB NO: 51263

SAMPLE ID: PWH3

PAGE: 6

	Very High															
	High															
	Medium															
	Low															
	Very Low															
Analyte	Organic Matter %	Nitrogen NO <sub>3</sub> -N ppm	Phosphorus Weak Bray ppm	Phosphorus NaHCO <sub>3</sub> -P ppm	Potassium K ppm	Magnesium Mg ppm	Calcium Ca ppm	Sodium Na ppm	Sulfur SO <sub>4</sub> -S ppm	Zinc Zn ppm	Manganese Mn ppm	Iron Fe ppm	Copper Cu ppm	Boron B ppm	Chloride Cl ppm	
Results	0.8	9	15	9	109	276	967	32	2	0.4	2	13	0.4	0.3		

Percent Cation Saturation (computed)



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CROP: ZINFANDEL

RATE: lb/acre

NOTES:

Dolomite (70 score)	Lime (70 score)	Gypsum	Elemental Sulfur	Nitrogen N	Phosphate P <sub>2</sub> O <sub>5</sub>	Potash K <sub>2</sub> O	Magnesium Mg	Sulfur SO <sub>4</sub> -S	Zinc Zn	Manganese Mn	Iron Fe	Copper Cu	Boron B	
				20	80	120		25	10	10			1.0	

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