

# A & L WESTERN AGRICULTURAL LABORATORIES, INC.

1311 Woodland Avenue, Suite 1 • Modesto, California 95351 • (209) 529-4080



Report: 06-103-024

Grower: Seeds of Hope International Partnership

PETER REIMER FARMS  
29343 W. TULARE AVE.  
SHAFTER, CA 93263

Client: 9999  
Page # 1 of 1  
Date: 05/01/2006

## Nematode Analysis Report

Attn: Peter Reimer

			Number of nematodes recovered per 100cc of soil															
Lab Number	Sample Number	Crop Past/Present	Root-Knot (Meloidogyne)	Lesion (Pratylenchus)	Stunt (Tylenchorhynchus)	Spiral (Helicotylenchus)	Stubby-Root (Trichodorus)	Dagger (Xiphinema)	Ring (Criconemoides)	CYST			Sting (Belonolaimus)	Lance (Hoplolaimus)	Sheath (Hemicriconemoides)	Pin (Paratylenchus)	Citrus (Tylenchulus)	Comments
										Larva	Adult	Egg						
54683	CHIEF	Bananas				32	16											B

Comments:

- A. None detected. If symptoms are present, check that proper sampling and shipping techniques were followed.
- B. Populations and kinds detected are not likely to cause plant/crop damage or yield loss.
- C. Continue to monitor populations.
- D. If this is a PREPLANT situation, treatment should definitely be considered.
- E. Populations and/or kinds detected may cause plant/crop damage or yield loss.
- F. Populations are high and treatment may be necessary.
- G. Recording crop information in the future will help to provide more meaningful recommendations, as varying tolerance levels exist.

**Do not apply a nematicide that is not labeled for your specific situation.**

Analyzed by A & L Southern Agricultural Laboratories, Inc.

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



REPORT NUMBER: 06-103-024

CLIENT NO: 99999

SEND TO: PETER REIMER FARMS  
29343 W TULARE AVE  
SHAFTER, CA 93263-

GROWER: SEEDS OF HOPE INT'T PRTRNSHP

SUBMITTED BY: PETER REIMER

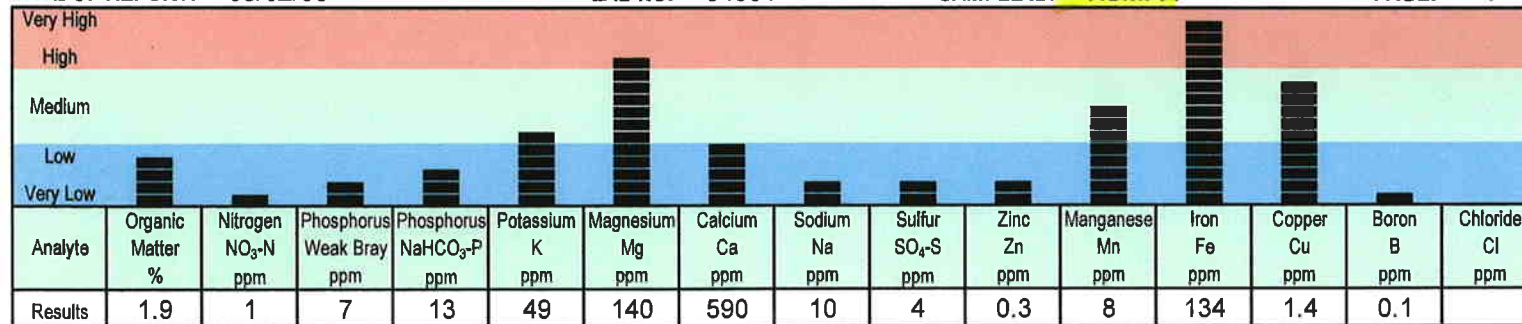
## Graphical Soil Analysis Report

DATE OF REPORT: 05/02/06

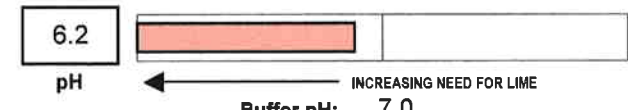
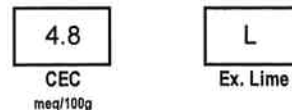
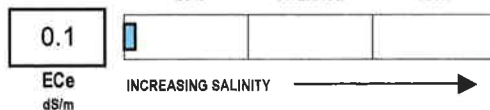
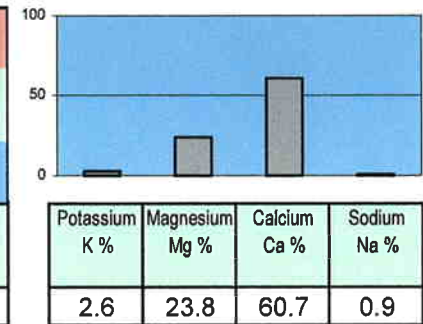
LAB NO: 54681

SAMPLE ID: **KSMPA**

PAGE: 1



### Percent Cation Saturation (computed)



Buffer pH: 7.0

## Soil Fertility Guidelines

CROP: VEGETABLES

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
	0			140	80	240		30	10				1.0

**C** LOW cation exchange capacity (CEC) of less than 5 meq/100g indicates that close attention needs to be paid to water and nutrient requirements. Try to maintain reasonable organic matter levels.

**O** ORGANIC MATTER: Low levels may restrict beneficial microbial activity and lead to soil compaction and erosion. Consider the inclusion of compost and/or cover crops if a concern.

**M** LIGHT TEXTURED SOILS that exhibit low pH may require very little lime (0) to raise pH due to their low buffering capacity. Less than 1000 lb/ac (25 lb/1000 sq ft) may be sufficient.

**N** MIXED VEGETABLES: Band up to 20 lb N + 40 lb P<sub>2</sub>O<sub>5</sub> + 20 lb K<sub>2</sub>O + 5 lb S/ac 3 inches below and to the side of seeds/transplants. Side-dress 2/3 of remaining N at thinning time, then as necessary.

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GROWER: SEEDS OF HOPE INT'T PRTRNSHP

SUBMITTED BY: PETER REIMER

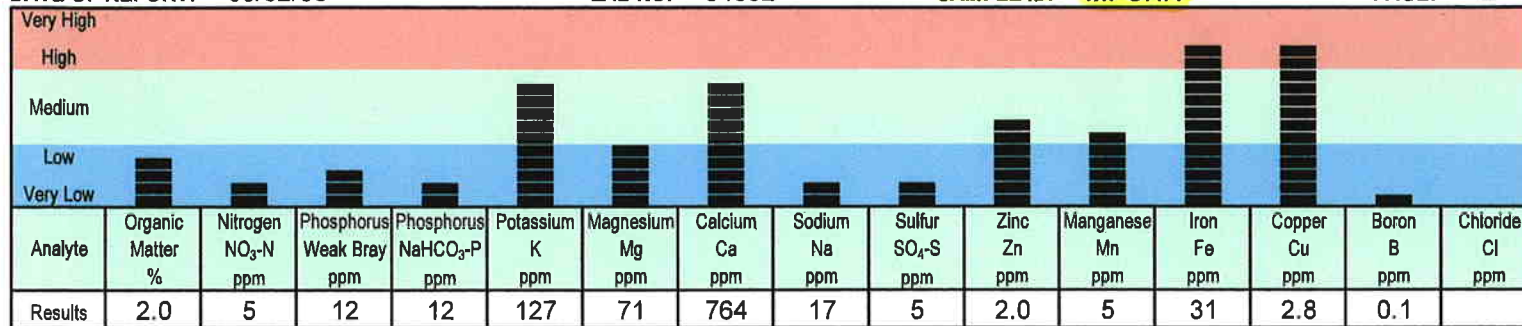
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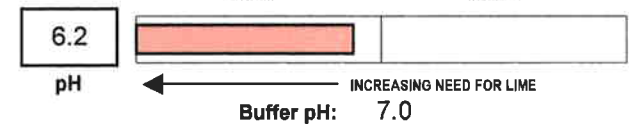
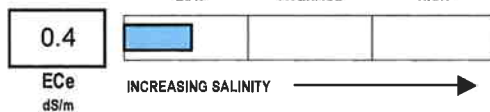
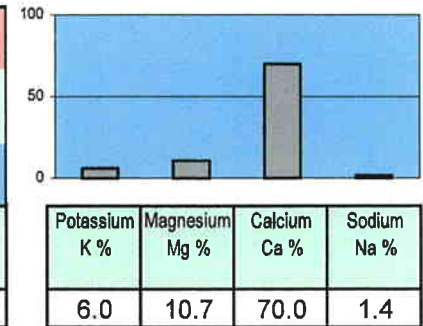
LAB NO: 54682

SAMPLE ID: **MPCHR**

PAGE: 2



### Percent Cation Saturation (computed)



## Soil Fertility Guidelines

CROP: VEGETABLES

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
0				130	80	90		30					1.0

- C** PHOSPHATE/POTASH: Band 6 to 8 inches INTO soil prior to growing season for best results, unless able to include in irrigation water. Be careful of salt burn. Broadcast as a last resort.
- M** NITROGEN: Use local conditions and experience with variety to determine rates and timing. Allow for nitrate levels in your water source also (ppm NO<sub>3</sub> X 0.61 = lb N/ac-ft water). Monitor tissue-N.
- S** SULFATE-SULFUR: Low soil levels may cause yellowing and lack of vigor. Maintain above 15 to 20 ppm to guard against deficiencies. Although, sulfates may have leached below sampling depth.
- Z** ZINC: Maintain soil levels above 1.0 ppm to ensure an adequate zinc supply. A tissue analysis at the appropriate time will determine more accurately, availability to the plant.

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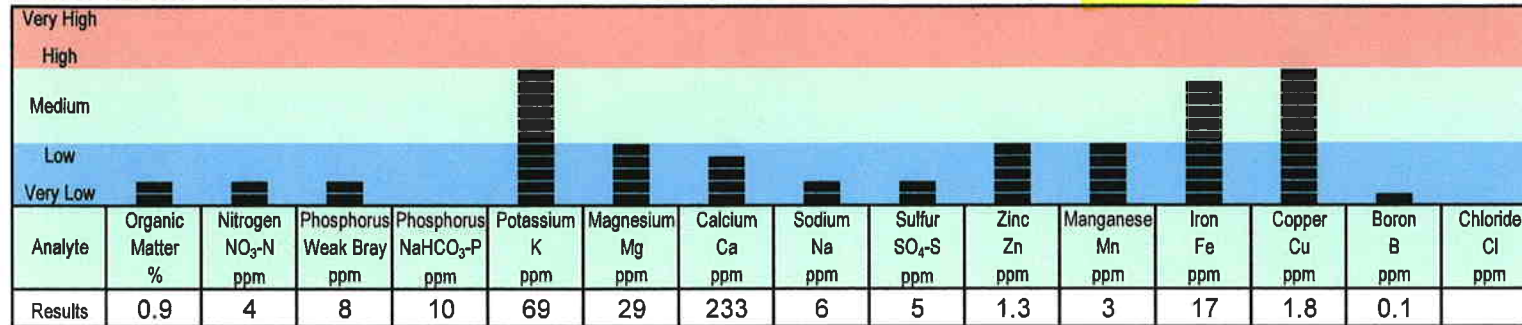
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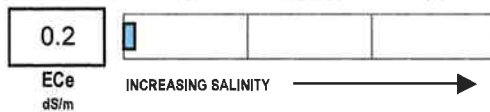
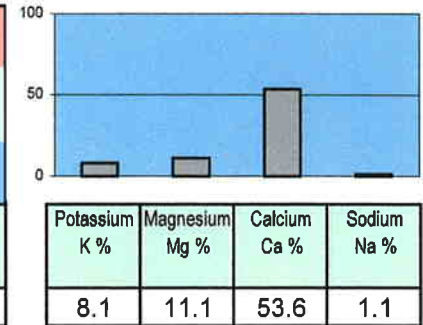
LAB NO: 54683

SAMPLE ID: CHIEF

PAGE: 3



### Percent Cation Saturation (computed)



NaHCO<sub>3</sub>-P unreliable at this soil pH

## Soil Fertility Guidelines

CROP: BANANAS

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
0				270	180	600	20	50	5	10			3.0

**C BANANAS:** To replace crop removal of nutrients, one should supply at least 4 lb N + 1.0 lb P<sub>2</sub>O<sub>5</sub> + 12 lb  
**O** K<sub>2</sub>O per ton of crop removed. Always monitor true requirements by timely tissue analyses.  
**M** Attempt to maintain soil levels of phosphate above 20 ppm and potassium levels around 300 ppm as bananas  
**M** are heavy feeders. Split applications throughout the season according to requirements.  
**E** BORON: Aim for soil levels above 0.5 ppm to avoid a deficiency. A tissue analysis at the appropriate  
**N** time will determine more accurately, plant availability. ADD BORON WITH CAUTION.  
**T** MAGNESIUM: If less than 50-70 ppm but pH is normal/high, consider Epsom salt, sulfate of potash  
**S** magnesia, magnesium nitrate, chelates, lignosulfonates or other neutral magnesium salts.

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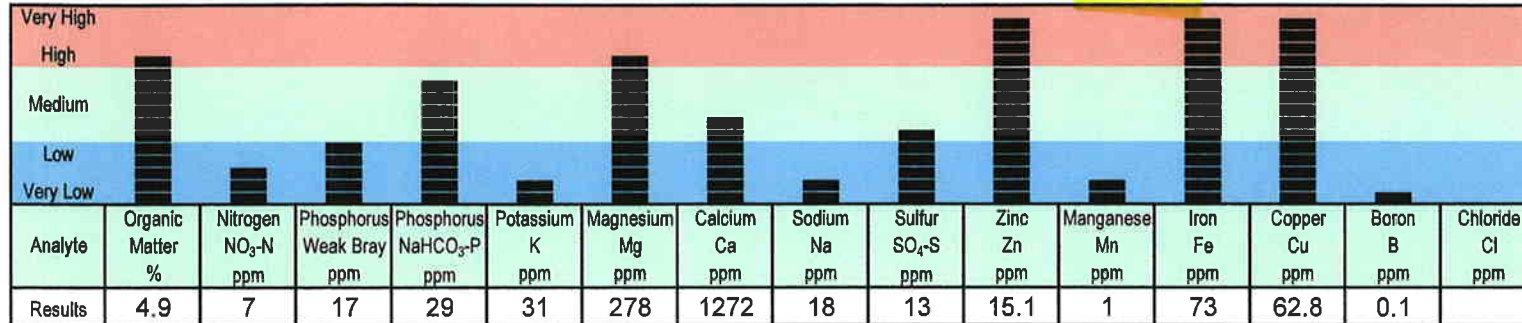
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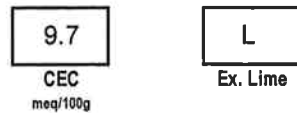
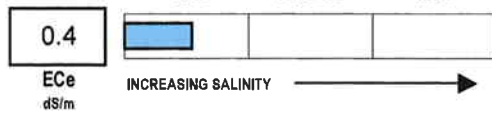
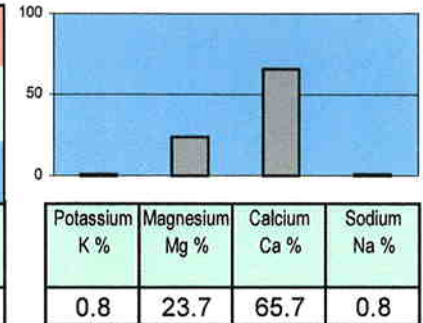
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SAMPLE ID: MPSWP

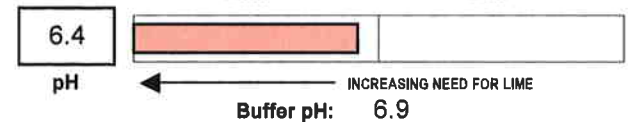
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### Percent Cation Saturation (computed)



L Ex. Lime



## Soil Fertility Guidelines

CROP: VEGETABLES

RATE: lb/acre

NOTES:

Dolomite (70 score)	Lime (70 score)	Gypsum	Elemental Sulfur	Nitrogen N	Phosphate P <sub>2</sub> O <sub>6</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
				110	40	270		20		10			1.0

- C** ZINC: Maintain soil levels above 2.0 ppm to ensure an adequate zinc supply. A tissue analysis at the appropriate time will determine more accurately, availability to the plant.
- O**
- M** 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.
- M**
- E** BORON: Aim for soil levels above 1.0 ppm to avoid a deficiency. A tissue analysis at the appropriate time will determine more accurately, plant availability. ADD BORON WITH CAUTION.
- N**
- T** NEMATODE ANALYSIS REPORT indicates that nematode populations may be below economic threshold levels (in
- S** SAMPLED AREA) at this time. Nutritional requirements are more of an issue it seems.

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