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



**REPORT NUMBER: 17-025-011 CLIENT NO: 99999** 

SEND TO: WHISKY HILL FARMS SUBMITTED BY:

371 CALABASAS RD **GROWER:** 

WATSONVILLE, CA 95076-

#### Percent **Graphical Soil Analysis Report Cation Saturation (computed)** SAMPLE ID: GH1 DATE OF REPORT: 01/30/17 **LAB NO:** 55494 PAGE: Very High High Medium Low Very Low Organic Nitrogen Phosphorus Phosphorus Potassium Magnesium Calcium Sodium Sulfur Zinc Manganese Copper Boron Chloride Potassium /lagnesium Calcium Sodium Iron Weak Bray NaHCO<sub>2</sub>-P Analyte Matter NO<sub>3</sub>-N Ca SO<sub>4</sub>-S Zn Fe Cu В CI K % Mg % Ca % Na % Ma Na % ppm mag ppm ppm 8.1 38 98 115 782 485 2164 160 157 10.3 3 20 1.0 1.2 22.8 Results 11.4 61.8 4.0 LOW **AVERAGE** HIGH ACIDIC BASIC 3.2 17.5 7.4 **ECe** CEC Ex. Lime Ηα INCREASING SALINITY INCREASING NEED FOR LIME dS/m meq/100g Buffer pH:

# **Soil Fertility Guidelines**

CROP: TURMERIC 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	
				90										

LIME REQUIREMENT: Liming may be necessary if buffer index is less than 6.9. Guidelines are based upon

common agricultural lime (70-score) per six-inch depth to raise SOIL pH to about 6.5.

NITROGEN: Recommendation is only a guideline. Use local conditions and plant N for the right rate and time of application. Allow also for nitrate in your water (ppm NO3 X 0.61= lb N/ac-ft water).

Ε PHOSPHATE: Band 6 to 8 inches INTO soil prior to growing season for maximum response. Alternatively,

Ν broadcast or include in irrigation water if precipitation is not a factor.

Т SOLUBLE SALTS: Levels above 1.0 mmho/cm (dS/m) may need to be reduced before further fertilizing, if S

aiming for 100% growth potential.

C

0

М

М

"Our reports and letters are for the exclusive and confidential use of our clients, and may not be reproduced in whole or in part, nor may any reference be made to the work, the result or the company in any advertising, news release, or other public announcements without obtaining our prior written authorization." The yield of any crop is controlled by many factors in additions to nutrition. While these recommendations are based on agronomic research and experience, they DO NOT GUARANTEE the achievement of satisfactory performance. © Copyright 1994 A & L WESTERN LABORATORIES, INC.

Logel Roger Rogell Rogers, CCA, PCA A & L WESTERN LABORATORIES, INC

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



**REPORT NUMBER: 17-025-011 CLIENT NO: 99999** 

SEND TO: WHISKY HILL FARMS SUBMITTED BY:

371 CALABASAS RD **GROWER:** 

WATSONVILLE, CA 95076-

#### Percent **Graphical Soil Analysis Report Cation Saturation (computed)** SAMPLE ID: GH3 DATE OF REPORT: 01/30/17 **LAB NO:** 55495 PAGE: Very High High Medium Low Very Low Organic Nitrogen Phosphorus Phosphorus Potassium Magnesium Calcium Sodium Sulfur Zinc Manganese Copper Boron Chloride Potassium Magnesium Calcium Sodium Iron Weak Bray NaHCO<sub>2</sub>-P Analyte Matter NO<sub>3</sub>-N Ca SO<sub>4</sub>-S Zn Fe Cu В CI K % Mg % Ca % Na % Mg Na % ppm 5.2 27 90 93 658 471 2403 251 613 9.4 15 0.9 Results 1.1 9.0 20.8 64.3 5.9 LOW **AVERAGE** HIGH ACIDIC BASIC 6.3 18.6 7.3 **ECe** CEC Ex. Lime Ηα INCREASING SALINITY INCREASING NEED FOR LIME dS/m meq/100g Buffer pH:

# **Soil Fertility Guidelines**

CROP: TURMERIC 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	
		2600		120										

SULFATE-SULFUR: Where levels are very high (VH), ensure that adequate watering and drainage can be

achieved before applying further fertilizer or amendments.

C

0

М

М

Ε

SULFATE-SULFUR: Low soil levels may cause yellowing and lack of vigor. Maintain above 15 to 20 ppm to quard against deficiencies. Although, sulfates may have leached below sampling depth.

SODIUM: If a concern, broadcast/water-run amendment (incorporate if possible). Approx 1.5 lb elemental S

Ν or 10 lb gypsum required to replace 1 ppm "exchangeable" sodium from 6 inches of soil.

Т COMBINED SALINITY PACKAGE (S10C): Running this test in conjunction with an irrigation water analysis

S (W2) may be advised. Don't ignore water quality. Submit one pint each of soil and water.

"Our reports and letters are for the exclusive and confidential use of our clients, and may not be reproduced in whole or in part, nor may any reference be made to the work, the result or the company in any advertising, news release, or other public announcements without obtaining our prior written authorization." The yield of any crop is controlled by many factors in additions to nutrition. While these recommendations are based on agronomic research and experience, they DO NOT GUARANTEE the achievement of satisfactory performance. © Copyright 1994 A & L WESTERN LABORATORIES, INC.

Logal Roger Rogell Rogers, CCA, PCA

A & L WESTERN LABORATORIES, INC

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



Percent

7.5

21.7

5.3

**REPORT NUMBER: 17-025-011 CLIENT NO: 99999** 

SEND TO: WHISKY HILL FARMS SUBMITTED BY:

371 CALABASAS RD **GROWER:** 

WATSONVILLE, CA 95076-

#### **Graphical Soil Analysis Report Cation Saturation (computed)** SAMPLE ID: GH4 DATE OF REPORT: 01/30/17 **LAB NO:** 55496 PAGE: Very High Medium Very Low Organic Nitrogen Phosphorus Phosphorus Potassium Magnesium Calcium Sodium Sulfur Zinc Manganese Copper Boron Chloride Potassium Magnesium Calcium Sodium Iron Weak Bray NaHCO<sub>2</sub>-P Analyte Matter $NO_3-N$ SO<sub>4</sub>-S Zn Fe Cu В CI K % Mg % Ca % Na % Mg Ca Na % ppm 3.4 92 134 135 492 442 2195 204 212 8.4 17 65.5

LOW **AVERAGE** HIGH ACIDIC BASIC 4.3 16.7 7.4 **ECe** CEC Ex. Lime Ηα INCREASING SALINITY INCREASING NEED FOR LIME dS/m meq/100g Buffer pH:

1.1

1.1

# **Soil Fertility Guidelines**

CROP: TURMERIC 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	
		2100												

RESTRICT further nitrogen applications where soil is already high in nitrogen, to avoid imbalances and leaching of nitrates into ground water. Consider monitoring appropriate tissue analyses.

BORON: Levels above 2.0 ppm need to be watched carefully, as growth may be affected. If leaching becomes necessary, check your water source first, in case it contributes to high levels.

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.

"Our reports and letters are for the exclusive and confidential use of our clients, and may not be reproduced in whole or in part, nor may any reference be made to the work, the result or the company in any advertising, news release, or other public announcements without obtaining our prior written authorization." The yield of any crop is controlled by many factors in additions to nutrition. While these recommendations are based on agronomic research and experience, they DO NOT GUARANTEE the achievement of satisfactory performance. © Copyright 1994 A & L WESTERN LABORATORIES, INC.

Rogell Rogers, CCA, PCA A & L WESTERN LABORATORIES, INC

C

High

Low

Results

0 М M Ε Ν

Т S

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



Percent

**REPORT NUMBER: 17-025-011 CLIENT NO: 99999** 

SEND TO: WHISKY HILL FARMS SUBMITTED BY:

371 CALABASAS RD **GROWER:** 

WATSONVILLE, CA 95076-

**ECe** 

dS/m

C 0

M Ε Ν Т S

INCREASING SALINITY

#### **Graphical Soil Analysis Report Cation Saturation (computed)** 01/30/17 55497 SAMPLE ID: GH5 DATE OF REPORT: LAB NO: PAGE: Very High High Medium Low Very Low Nitrogen Manganese Copper Organic Phosphorus Phosphorus Potassium Magnesium Calcium Sodium Sulfur Zinc Boron Chloride Potassium /lagnesium Calcium Sodium Analyte Matter NO<sub>3</sub>-N Weak Bray NaHCO<sub>3</sub>-P Mg Ca SO<sub>4</sub>-S Zn Fe Cu В CI K % Mg % Ca % Na % Na % ppm 4.5 86 131 116 745 418 2099 203 463 8.8 6 13 8.0 1.0 62.7 5.3 Results 11.4 20.6 LOW **AVERAGE** HIGH ACIDIC BASIC 5.5 16.7 7.0

# **Soil Fertility Guidelines**

**CROP:** TURMERIC lb/acre RATE:

Ex. Lime

pН

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	
		2100												

CEC

meq/100g

"Our reports and letters are for the exclusive and confidential use of our clients, and may not be reproduced in whole or in part, nor may any reference be made to the work, the result or the company in any advertising, news release, or other public announcements without obtaining our prior written authorization." The yield of any crop is controlled by many factors in additions to nutrition. While these recommendations are based on agronomic research and experience, they DO NOT GUARANTEE the achievement of satisfactory performance. © Copyright 1994 A & L WESTERN LABORATORIES, INC.

Rogell Rogers, CCA, PCA A & L WESTERN LABORATORIES, INC

NOTES:

INCREASING NEED FOR LIME

Buffer pH:

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



REPORT NUMBER: 17-025-011 CLIENT NO: 99999

SEND TO: WHISKY HILL FARMS SUBMITTED BY:

371 CALABASAS RD GROWER:

WATSONVILLE, CA 95076-

COMMENTS

#### **Graphical Soil Analysis Report** Percent **Cation Saturation (computed)** SAMPLE ID: GH6 01/30/17 55498 DATE OF REPORT: LAB NO: PAGE: Very High High 50 Medium Low Very Low Nitrogen Copper Organic Phosphorus Phosphorus Potassium Magnesium Calcium Sodium Sulfur Zinc Manganese Boron Chloride Potassium Magnesium Calcium Sodium Iron Analyte Matter NO<sub>3</sub>-N Weak Bray NaHCO<sub>3</sub>-P Mg Ca SO<sub>4</sub>-S Zn Fe Cu В CI K % Mg % Ca % Na % Na % ppm 2.2 3933 2.5 131 171 338 505 452 236 2393 9.6 14 0.9 5.0 76.5 Results 14.5 4.0 LOW **AVERAGE** HIGH ACIDIC BASIC 6.6 25.7 7.1 **ECe** CEC Ex. Lime pН INCREASING SALINITY INCREASING NEED FOR LIME dS/m meq/100g Buffer pH:

# **Soil Fertility Guidelines**

CROP: TURMERIC RATE: lb/acre NOTES:

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

"Our reports and letters are for the exclusive and confidential use of our clients, and may not be reproduced in whole or in part, nor may any reference be made to the work, the result or the company in any advertising, news release, or other public announcements without obtaining our prior written authorization." The yield of any crop is controlled by many factors in additions to nutrition. While these recommendations are based on agronomic research and experience, they DO NOT GUARANTEE the achievement of satisfactory performance. © Copyright 1994 A & L WESTERN LABORATORIES, INC.

Rogell Rogers, CCA, PCA

A & L WESTERN LABORATORIES, INC

.....

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



Sodium

Na %

10.9

**REPORT NUMBER: 17-025-011 CLIENT NO: 99999** 

SEND TO: WHISKY HILL FARMS SUBMITTED BY:

371 CALABASAS RD **GROWER:** 

Potassium

ppm

630

LAB NO:

Magnesium

Mg

ppm

408

WATSONVILLE, CA 95076-

Phosphorus Phosphorus

Weak Bray NaHCO<sub>3</sub>-P

ppm

139

ppm

153

01/30/17

Nitrogen

NO<sub>3</sub>-N

ppm

127

Organic

Matter

%

3.2

DATE OF REPORT:

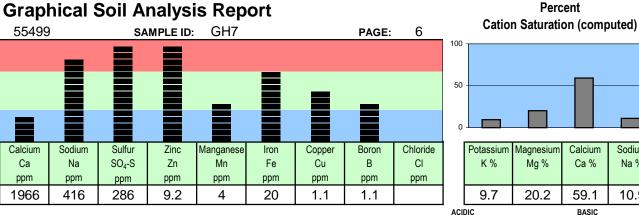
Very High High Medium Low Very Low

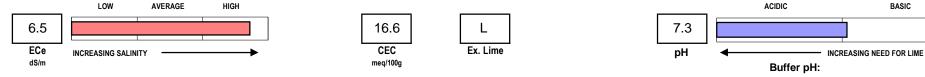
Analyte

Results

C 0 M M Ε Ν Т S

# **Graphical Soil Analysis Report**





# **Soil Fertility Guidelines**

**CROP:** TURMERIC lb/acre RATE: 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	
		4200												

"Our reports and letters are for the exclusive and confidential use of our clients, and may not be reproduced in whole or in part, nor may any reference be made to the work, the result or the company in any advertising, news release, or other public announcements without obtaining our prior written authorization." The yield of any crop is controlled by many factors in additions to nutrition. While these recommendations are based on agronomic research and experience, they DO NOT GUARANTEE the achievement of satisfactory performance. © Copyright 1994 A & L WESTERN LABORATORIES, INC.

Rogell Rogers, CCA, PCA A & L WESTERN LABORATORIES, INC

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



**REPORT NUMBER: 17-025-011 CLIENT NO: 99999** 

SEND TO: WHISKY HILL FARMS SUBMITTED BY:

371 CALABASAS RD **GROWER:** 

WATSONVILLE, CA 95076-

#### **Graphical Soil Analysis Report** Percent **Cation Saturation (computed)** SAMPLE ID: FF1 01/30/17 55500 DATE OF REPORT: LAB NO: PAGE: Very High High Medium Low Very Low Nitrogen Organic Phosphorus Phosphorus Potassium Magnesium Calcium Sodium Sulfur Zinc Manganese Iron Copper Boron Chloride Potassium Magnesium Calcium Sodium Analyte Matter $NO_3-N$ Weak Bray NaHCO<sub>3</sub>-P Mg Ca Na SO<sub>4</sub>-S Zn Fe Cu В CI K % Mg % Ca % Na % % ppm 2.2 8 32 329 1158 3.5 72 37 266 19 18 10 1.5 0.3 6.0 23.7 50.6 Results 0.7 LOW AVERAGE HIGH ACIDIC BASIC 0.3 11.4 5.8 CEC **ECe** Ex. Lime INCREASING SALINITY pН INCREASING NEED FOR LIME

NaHCO3-P unreliable at this soil pH

dS/m

C 0

M Ε Ν Т S

# **Soil Fertility Guidelines**

CROP: FALLOW lb/acre RATE: 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	
	3000			120	80			20					0.5	

meq/100g

"Our reports and letters are for the exclusive and confidential use of our clients, and may not be reproduced in whole or in part, nor may any reference be made to the work, the result or the company in any advertising, news release, or other public announcements without obtaining our prior written authorization." The yield of any crop is controlled by many factors in additions to nutrition. While these recommendations are based on agronomic research and experience, they DO NOT GUARANTEE the achievement of satisfactory performance. © Copyright 1994 A & L WESTERN LABORATORIES, INC.

Rogell Rogers, CCA, PCA A & L WESTERN LABORATORIES, INC

6.7

Buffer pH: