



# Soil Analysis

**ELAP Certificate No. 2714**  
**Manure Analysis Proficiency (MAP)**  
**North American Proficiency Testing (NAPT)**  
**National Forage Testing Association (NFTA)**  
**Family Farms Alliance (FFA)**

Date Received: 08/24/2015  
 Submitted By: Brian  
 Lab ID: 781086A  
 Sample ID: Calcium XP Pre-Sample

Soil Sample: Pistacios  
 Variety: Independant  
 Present YIELD: High  
 Proposed Yield: 1.0 Ton(s)/acre  
 Purchase Order:

Report Date: 08/28/2015  
 Sample Date: 08/24/2015  
 Approved By:  
 Order Number: S 781086A  
 Grower: WFSM



Analyte	Result	Units	Optimal	Very Low	Low	Normal	High	Very High
pH (Water)	8.1	SU						
pH (Soil)	8.2	SU	6.45					
Electric Conductivity	37.2	mmhos/cm	1.05					
Soluble Salts	23,808	ppm	672					
Nitrate Nitrogen	102.0	ppm	35					
Chloride	32.1	meq	2.75					
Organic Matter		%	1.75					
Phosphorus (Olsen Method)	10.0	ppm	26					
<b>MicroNutrients</b>								
Boron	11.5	ppm	0.6					
Zinc	3.3	ppm	12.5					
Iron	2.1	ppm	60					
Copper	0.4	ppm	8.5					
Manganese	1.5	ppm	22					
Sulfate	485.0	ppm	38.5					

	Exchangeable Citations	Base Saturation		Acetate Extraction			Water Extraction			Extraction Ratio
		Result	Your %	Optimal %	Low	Normal	High	Result	% Total	
Potassium	264 ppm	1.5%	3 - 7				Potassium	0.87 meq	0.3 %	12.57 %
Calcium	4,632 ppm	49.8%	65 - 78				Calcium	24.69 meq	7.6 %	10.77 %
Magnesium	93 ppm	1.6%	12 - 21				Magnesium	2.28 meq	0.7 %	29.53 %
Sodium	5,042 ppm	47.1%	< 3.1				Sodium	291.37 meq	91.2 %	132.86 %

Plant Nutrient Recommendations				Total Nitrogen			SAR	C:N	Ca:Mg
Nitrogen		Sulfur*		Bray Phosphorus		79.1		49.8	
Phosphorus:	54.2 Lbs/Acre	Boron		Ammonia Nitrogen		CEC	46.1 meq/100mg		
Potassium		Zinc		Free Lime:			Carbonates: High		
Copper:	6.6 Lbs/Acre	Manganese:	9.2 Lbs/Acre	Nitrogen Holding:	246.1 Lbs/Acre		Percolation: High		

\* If fertilizer recommendation exceeds 600-lbs (0.3 tons). Multiple applications recommended Note: All Results are on a Dry Basis. To convert ppm to lbs / acre (6-inches of surface soil weighing 2,000,000 lbs.) multiply by two

Denele Intergrated Ratios						Soil Amendment Recommendations			
Sodium	116.8	NO3	12.9	Organic Matter	0.0	Gypsum (18%) Calcium Supplement	40.5 Tons/Acre	Gypsum (18%) Sodium Reduction:	81.7 Tons/Acre
Boron	147.2	Zinc	-21.6	Phosphorus	-12.1	The micronutrients recommended are in lbs/acre on a broadcast elemental basis, If micronutrients are banded, divide the recommended value by 3. If chelated fertilizers are used, divide the recommendation by four. Research has shown that optimum yields are obtained with nitrogen split into 2-4 applications. Recommended nitrogen is based on 90% efficiency of application. Highest losses of nitrogen occur with witter applications. Early spring to late summer is the optimum time to apply nitrogen.			
Iron	-279.9	Copper	-203.3	Manganese	-115.2	Sulfate	73.3		

If QC is required for this sample, please contact lab. Liability Limits: The warranty of Denele Analytical is limited to the accuracy of the analysis of the samples as received. Denele Analytical assumes no responsibility for which the customer uses our test results, liability for any other warranties, expressed or implied. These terms and conditions shall any conflicting terms and conditions submitted on customer purchase orders or other forms submitted for work.

