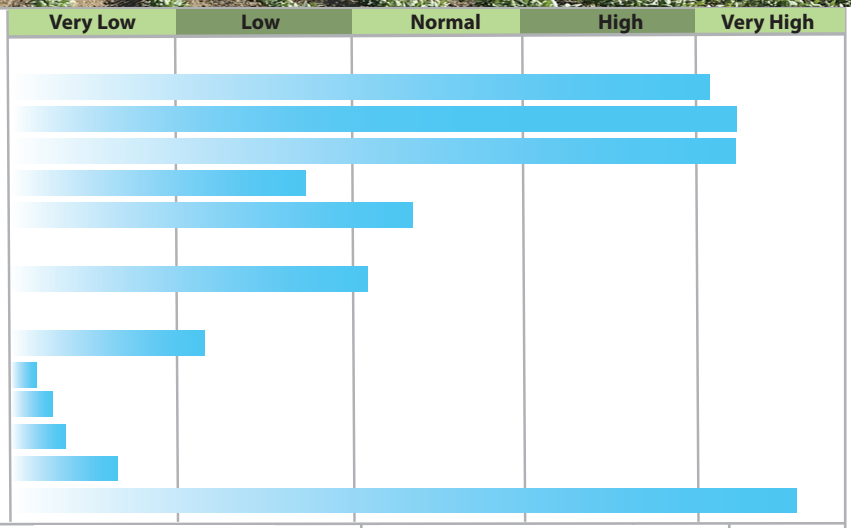
FRESH TRACKS AG

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:	09/01/2015	Soil Sample:	Pistacios	Report Date:	09/01/2015
Submitted By:	Brian	Variety:		Sample Date:	09/04/2015
Lab ID:	781374A	Present Yeild:	High	Approved By:	
Sample ID:	Calcium XP (Treated 8/Days)	Proposed Yield:	1.0 Ton(s)/acre	Order Number:	S 781374A
		Purchase Order:		Grower: WSFM	

Analyte	Result	Units	Optimal
pH (Water)	7.1	SU	
pH (Soil)	7.1	SU	6.45
Electric Conducivity	4.9	mmhos/cm	1.05
Soluble Salts	3,117	ppm	672
Nitrate Nitrogen	18.0	ppm	35
Chloride	2.3	meq	2.75
Organic Matter		%	1.75
Phosphorus (Olsen Method)	19.0	ppm	26
MicroNutrients			
Boron	0.2	ppm	0.6
Zinc	0.4	ppm	12.5
Iron	2.1	ppm	60
Copper	0.4	ppm	7
Manganese	3.0	ppm	22
Sulfate	240.0	ppm	38.5



	Exchangeable Citations	Base Saturation		Acetate Extraction			Water Extraction			Extraction Ratio
	Result	Your %	Optimal %	Low	Normal	High	Result	% Total		
Potassium	305 ppm	2.0%	3 - 7				Potassium	0.06 meq	0.8 %	0.81 %
Calcium	5,853 ppm	73.0%	65 - 78				Calcium	3.47meq	42.8 %	1.19 %
Magnesium	358 ppm	7.3%	12 - 21				Magnesium	1.49 meq	18.4 %	5.06 %
Sodium	1,632 ppm	17.7%	< 3.1				Sodium	3.09 meq	36.1 %	4.36 %

Plant Nutrient Recommendations

Nitrogen	Sulfur*
Phosphorus: 54.2 Lbs/Acre	Boron
Potassium	Zinc
Copper: 6.6 Lbs/Acre	Manganese: 9.2 Lbs/Acre

** 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*

Total Nitrogen		SAR	C:N	Ca:Mg
Bray Phosphorus	19.0	2.0		16.3
Ammonia Nitrogen		CEC	39.6 meq/100mg	

Free Lime:	Carbonates: High
Nitrogen Holding Capacity: 352.1 Lbs/Acre	Percolation: High

Denele Intergrated Ratios	Sodium	NO3	Organic Matter	Phosphorus
	50.5	-7.2	0.0	-3.1

Boron	Zinc	Iron	Copper	Manganese	Sulfate
-17.0	-339.2	-244.3	-147.3	-46.6	43.5

Soil Amendment Recommendations

Gypsum (18%) Calcium Supplement: 5.5 Tons/Acre
Gypsum (18%) Sodium Reduction: 23.3 Tons/Acre

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.