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COMPLETE CHEMISTRY TEST RESULTS

REPORT PREPARED FOR:

Sample ID UPPER CHEM
Lab ID NF_UPB17
Date Sample Taken: 7/10/17
Date Received at Lab: 7/11/17
Date Completed: 7/25/17
Square Footage: 6250 FT ^2

Sample Information

Sample Type: SOIL
 Intended Crop: Am. Chestnuts & Eng. Wa
 Field History/Notes: disturbed woodland 20 yrs old regrowth old
 Core Depth (in): 3"
 Thatch (in): 1"
 Root Length (in): 6"+

Test	Result	Desired Range	Test	Result	Desired Range
pH	4.70	5.5-6.5	Total Exchange Capacity (meq/100g)	3.26	> 10
% Soil Moisture	33.72	15 - 45%	Electrical Conductivity (mS/cm)	0.01	< 0.4
% Organic Matter	10.08	5 - 18%			
Nitrate Nitrogen (ppm)	47.00	> 10			
Sulfur (ppm)	25.00	25 - 50			

Melich III: "Reserve Nutrients"					Trace Elements					
Calcium	Magnesium	Phosphorus	Sodium	Potassium	Zinc	Iron	Manganese	Copper	Boron	
Result (ppm)	184.5	29	42.5	19.5	34	4.46	344	11	1.07	0.37
Desired Range (ppm)	see p2	see p2	25-50	see p2	see p2	5-10	19-21	19-21	1.5-2.5	1.5-3
Rating	L	L	M	M	M	M	H	L	L	L

Report Symbology: NR = Not Reported; NA = Not Applicable; NT = Not Tested; ND = Not Detected; H = High; M = Medium; L = Low

ppm = parts per million; meq/100g = milliequivalents per 100 grams; mS/cm = milliSeimens/centimeter; Ca = Calcium; Mg = Magnesium; K = Potassium; Na = Sodium

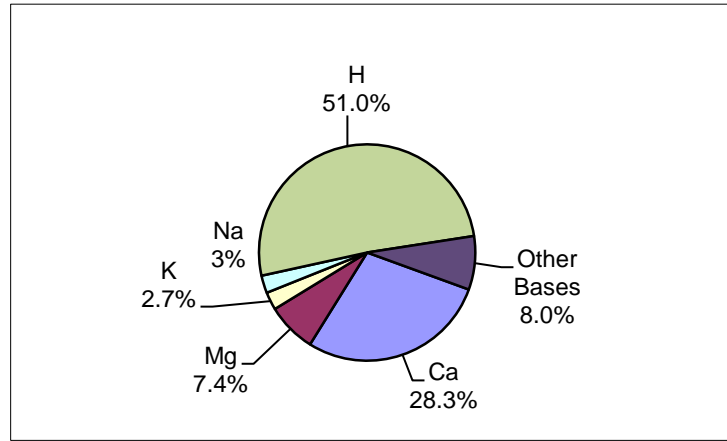
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PERCENT BASE SATURATION: Reserve Nutrients



INTERPRETATIONS AND RECOMMENDATIONS

Calcium, magnesium and pH levels should be increased. They can be balanced with 2 applications of dolomitic lime at 25 lb/1000 sqft. spring and fall.

Beneficial microorganisms in compost tea will help make trace minerals in the soil available for plant uptake. During the growing season of the first year (late spring to early fall), we recommend a monthly chelated foliar spray for low-level trace minerals, or foliar sprays of kelp and fish.

To reduce thatch, we recommend 3 applications of Natural Dethatcher.

Desired Ranges	Ca	Mg	K	Na	H
(Reserve Nutrients)	65 - 75%	10 - 15%	2 - 7%	1 - 3%	10 - 15%