

Soil Test Report

Prepared For:

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Sample Information:

Sample ID: C3 2016

Order Number: 21757

Lab Number: S160419-226

Area Sampled: 20 acres

Received: 4/19/2016





Reported: 5/6/2016

Results

<i>Analysis</i>	<i>Value Found</i>	<i>Optimum Range</i>	<i>Analysis</i>	<i>Value Found</i>	<i>Optimum Range</i>
Soil pH (1:1, H ₂ O)	5.4		Cation Exch. Capacity, meq/100g	13.8	
Modified Morgan extractable, ppm			Exch. Acidity, meq/100g	7.1	
<i>Macronutrients</i>			Base Saturation, %		
Phosphorus (P)	0.5	4-14	Calcium Base Saturation	36	50-80
Potassium (K)	261	100-160	Magnesium Base Saturation	8	10-30
Calcium (Ca)	989	1000-1500	Potassium Base Saturation	5	2.0-7.0
Magnesium (Mg)	131	50-120	Scoop Density, g/cc	1.03	
Sulfur (S)	8.6	>10	Optional tests		
<i>Micronutrients *</i>			Soil Organic Matter (LOI), %	4.9	
Boron (B)	0.0	0.1-0.5			
Manganese (Mn)	11.9	1.1-6.3			
Zinc (Zn)	1.4	1.0-7.6			
Copper (Cu)	0.1	0.3-0.6			
Iron (Fe)	3.8	2.7-9.4			
Aluminum (Al)	41	<75			
Lead (Pb)	0.0	<22			

* Micronutrient deficiencies rarely occur in New England soils; therefore, an Optimum Range has never been defined. Values provided represent the normal range found in soils and are for reference only.

Soil Test Interpretation

Nutrient	Very Low	Low	Optimum	Above Optimum
Phosphorus (P):				
Potassium (K):				
Calcium (Ca):				
Magnesium (Mg):				

Recommendations for Data only (including micronutrients)

Comments:

-Avoid overfertilization. In addition to threatening water quality, excessive nutrient applications can compromise plant health and contribute to insect and disease problems. For details, see Reference "Over-Fertilization: Its Causes, Effects and Remediation" (listed below).

References:

Over-Fertilization: Its Causes, Effects and Remediation <http://soiltest.umass.edu/fact-sheets/over-fertilization-soils-its-causes-effects-and-remediation>

General References:

Interpreting Your Soil Test Results <http://soiltest.umass.edu/fact-sheets/interpreting-your-soil-test-results>

For current information and order forms, please visit <http://soiltest.umass.edu/>

UMass Extension Nutrient Management <http://ag.umass.edu/agriculture-resources/nutrient-management>