

Soil Test Report

Prepared For:

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Sample Information:

Sample ID: A Rome

Order Number: 31440

Lab Number: S170629-118

Area Sampled: 100 sq ft

Received: 6/29/2017





Reported: 7/12/2017

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)	5.7		Cation Exch. Capacity, meq/100g	23.9	
Modified Morgan extractable, ppm			Exch. Acidity, meq/100g	8.0	
<i>Macronutrients</i>			Base Saturation, %		
Phosphorus (P)	2.2	4-14	Calcium Base Saturation	58	50-80
Potassium (K)	203	100-160	Magnesium Base Saturation	6	10-30
Calcium (Ca)	2778	1000-1500	Potassium Base Saturation	2	2.0-7.0
Magnesium (Mg)	174	50-120	Scoop Density, g/cc	1.01	
Sulfur (S)	29.6	>10	Optional tests		
<i>Micronutrients *</i>			Soil Organic Matter (LOI), %	11.4	
Boron (B)	0.3	0.1-0.5			
Manganese (Mn)	22.1	1.1-6.3			
Zinc (Zn)	5.4	1.0-7.6			
Copper (Cu)	2.4	0.3-0.6			
Iron (Fe)	7.7	2.7-9.4			
Aluminum (Al)	124	<75			
Lead (Pb)	4.4	<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 Home Vegetable Garden

Limestone (Target pH of 6.5)	Nitrogen, N	Phosphorus, P2O5	Potassium, K2O
15	.25 - .3	0.25	0

Comments:

- For instructions on converting nutrient recommendations to fertilizer applications in home gardens, lawns and landscapes, see Reference "Step-by-Step Fertilizer Guide for Home Grounds and Gardening" (listed below).
- Do not topdress with more than 5 lb limestone per 100 sq ft at one time. Split the above application between early spring and mid-autumn.
- 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 "Corrective Measures and Management of Over-Fertilized Soils" (listed below).
- The lead level in this soil is LOW. For more information about lead levels in soil, see our Soil Lead Fact Sheet.

References:

Soil Lead: Testing, Interpretation & Recommendations	http://soiltest.umass.edu/fact-sheets/soil-lead-testing-interpretation-recommendations-0
Home Lawn and Garden Information	http://ag.umass.edu/resources/home-lawn-garden
Step-by-Step Fertilizer Guide for Home Grounds and Gardening	https://soiltest.umass.edu/fact-sheets/step-step-fertilizer-guide-home-grounds-and-gardening
Corrective Measures and Management of Over-Fertilized Soils	https://ag.umass.edu/soil-plant-tissue-testing-lab/fact-sheets/corrective-measures-management-of-over-fertilized-soils

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