

Soil Test Report

Prepared For:

Lisa Krause
The Conway School
88 Village Hill Rd
Northampton, MA 01060

lisa.j.krause@gmail.com
630-400-7183

Sample Information:

Sample ID: Southeast

Order Number: 41099

Lab Number: S181026-130

Area Sampled: 10000 sq ft

Received: 10/29/2018





Reported: 11/1/2018

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)	4.5		Cation Exch. Capacity, meq/100g	15.2	
Modified Morgan extractable, ppm			Exch. Acidity, meq/100g	13.8	
<i>Macronutrients</i>			Base Saturation, %		
Phosphorus (P)	1.5	4-14	Calcium Base Saturation	7	50-80
Potassium (K)	69	100-160	Magnesium Base Saturation	1	10-30
Calcium (Ca)	207	1000-1500	Potassium Base Saturation	1	2.0-7.0
Magnesium (Mg)	26	50-120	Scoop Density, g/cc	0.82	
Sulfur (S)	40.2	>10	Optional tests		
<i>Micronutrients *</i>			Soil Organic Matter (LOI), %	7.6	
Boron (B)	0.0	0.1-0.5			
Manganese (Mn)	15.3	1.1-6.3			
Zinc (Zn)	1.2	1.0-7.6			
Copper (Cu)	0.2	0.3-0.6			
Iron (Fe)	58.5	2.7-9.4			
Aluminum (Al)	318	<75			
Lead (Pb)	2.7	<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
27.5	.25 - .3	0.5	0.25

Comments:

-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.

*To supply Nitrogen, apply EITHER 2 - 2.5 lbs. Dried Blood (12-0-0) OR 0.6 - 0.7 lbs. Urea (45-0-0) per 100 square feet. Application should be split between early spring and mid-June.

*To supply Phosphorus, apply EITHER 4.2 lbs. Bone Meal (4-12-0) OR 1.1 lb. Triple Phosphate (0-45-0) per 100 square feet.

*To supply Potassium, apply 0.4 lbs. Potash (0-0-60) per 100 square feet.

-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).

-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://ag.umass.edu/SPNTL-4>

Recommendations for Deciduous Trees, Shrubs & Vines-Establishment

Limestone (Target pH of 6.0)	Nitrogen, N	Phosphorus, P2O5	Potassium, K2O
22.5	.1 - .2	0.25	0.25

Comments:

*To supply Nitrogen, apply EITHER 1 - 1.5 lbs. Dried Blood (12-0-0) OR 0.2 - 0.4 lbs. Urea (45-0-0) per 100 square feet. Application should be split between early spring and mid-June.

*To supply Phosphorus, apply EITHER 2.1 lbs. Bone Meal (4-12-0) OR 0.6 lb. Triple Phosphate (0-45-0) per 100 square feet.

*To supply Potassium, apply 0.4 lbs. Potash (0-0-60) per 100 square feet.

-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).

-Your soil pH is very low. Consider growing plants adapted to very acid soils.

-Use native soil to fill around the roots when planting. If the soil is light sand or heavy clay, mix in some peat moss or compost. Maintain a 2 to 4 inch organic mulch to help conserve moisture and improve soil conditions.

References:

Home Lawn and Garden Information <http://ag.umass.edu/resources/home-lawn-garden>

Step-by-Step Fertilizer Guide for Home Grounds and Gardening <https://ag.umass.edu/SPNTL-4>

Recommendations for Deciduous Trees, Shrubs & Vines-Maintenance

Limestone (Target pH of 6.0)	Nitrogen, N	Phosphorus, P2O5	Potassium, K2O
22.5	.1 - .2	0.25	0.25

Comments:

-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.

*To supply Nitrogen, apply EITHER 1 - 1.5 lbs. Dried Blood (12-0-0) OR 0.2 - 0.4 lbs. Urea (45-0-0) per 100 square feet. Application should be split between early spring and mid-June.

*To supply Phosphorus, apply EITHER 2.1 lbs. Bone Meal (4-12-0) OR 0.6 lb. Triple Phosphate (0-45-0) per 100 square feet.

*To supply Potassium, apply 0.4 lbs. Potash (0-0-60) per 100 square feet.

-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).

-Your soil pH is very low. Consider growing plants adapted to very acid soils.

References:

Home Lawn and Garden Information <http://ag.umass.edu/resources/home-lawn-garden>

Step-by-Step Fertilizer Guide for Home Grounds and Gardening <https://ag.umass.edu/SPNTL-4>

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>