

Soil Test Report

Prepared For:

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Sample Information:

Sample ID: 5324-1

Order Number: 24418

Lab Number: S160727-129

Area Sampled: 0.5 acres

Received: 7/27/2016

Reported: 8/2/2016

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) | 6.4 | | Cation Exch. Capacity, meq/100g | 15.0 | |
| Modified Morgan extractable, ppm | | | Exch. Acidity, meq/100g | 2.8 | |
| <i>Macronutrients</i> | | | Base Saturation, % | | |
| Phosphorus (P) | 3.6 | 4-14 | Calcium Base Saturation | 67 | 50-80 |
| Potassium (K) | 86 | 100-160 | Magnesium Base Saturation | 13 | 10-30 |
| Calcium (Ca) | 2016 | 1000-1500 | Potassium Base Saturation | 1 | 2.0-7.0 |
| Magnesium (Mg) | 231 | 50-120 | Scoop Density, g/cc | 0.95 | |
| Sulfur (S) | 20.7 | >10 | Optional tests | | |
| <i>Micronutrients *</i> | | | Soluble Salts (1:2), dS/m | 0.02 | <0.6 |
| Boron (B) | 0.7 | 0.1-0.5 | Nitrate-N (NO ₃ -N), ppm | 6 | |
| Manganese (Mn) | 14.2 | 1.1-6.3 | | | |
| Zinc (Zn) | 4.0 | 1.0-7.6 | | | |
| Copper (Cu) | 0.2 | 0.3-0.6 | | | |
| Iron (Fe) | 2.9 | 2.7-9.4 | | | |
| Aluminum (Al) | 10 | <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 Home Vegetable (mixed)

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

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).

-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/interest-areas/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>

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>