

Extension Soil & Plant Nutrient Testing Laboratory

Soil Test Report

Prepared For:

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Sample Information:

Sample ID: RFG Bedfs B-C

Order Number: 84439
Lab Number: S251117-109
Area Sampled: 120 sq ft
Received: 11/17/2025
Reported: 11/21/2025

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, H2O)	6.1		Cation Exch. Capacity, meq/100g	12.9	
Modified Morgan extractable, ppm			Exch. Acidity, meq/100g	5.3	
<i>Macronutrients</i>			Base Saturation, %		
Phosphorus (P)	10.8	4-14	Calcium Base Saturation	44	50-80
Potassium (K)	126	100-160	Magnesium Base Saturation	12	10-30
Calcium (Ca)	1137	1000-1500	Potassium Base Saturation	3	2.0-7.0
Magnesium (Mg)	193	50-120	Scoop Density, g/cc	1.19	
Sulfur (S)	42.4	>10	Optional tests		
<i>Micronutrients *</i>			Soil Organic Matter (LOI), %	5.4	
Boron (B)	0.2	0.1-0.5	Soluble Salts (1:2), dS/m	0.21	<0.6
Manganese (Mn)	1.2	1.1-6.3			
Zinc (Zn)	5.4	1.0-7.6			
Copper (Cu)	0.2	0.3-0.6			
Iron (Fe)	4.1	2.7-9.4			
Aluminum (Al)	66	<75			
Lead (Pb)	4.2	<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):			██	

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Recommendations for Home Vegetable Garden

Limestone (Target pH of 6.5)	Nitrogen, N	Phosphorus, P2O5	Potassium, K2O
10	.25 - .3	0.1	0.1

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 0.8 lbs. Bone Meal (4-12-0) OR 0.2 lb. Triple Phosphate (0-45-0) per 100 square feet.

*To supply Potassium, apply 0.2 lbs. Potash (0-0-60) per 100 square feet.

-For instructions on converting nutrient recommendations to fertilizer applications in home gardens and landscapes, see Reference "Step-by-Step Fertilizer Guide for Home Grounds and Gardening" (listed below).

-The lead level in this soil is less than 22 ppm, which falls below the listed optimum level. However, many variables affect this result, and safety thresholds vary by location and soil use. There is still a potential risk of lead exposure for soils used for growing food or as play areas for children. Our Total Sorbed Metals test provides an accurate measurement of soil lead. For more information about lead levels in soil, see the fact sheet entitled "Soil Lead: Testing, Interpretation, & Recommendations," listed under General References at the end of this report.

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>

Soil Lead: Testing, Interpretation & Recommendations <http://ag.umass.edu/soil-plant-nutrient-testing-laboratory/fact-sheets/soil-lead-fact-sheet>

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

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