

## Extension Soil & Plant Nutrient Testing Laboratory

### Soil Test Report

**Prepared For:**

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**Sample Information:**

Sample ID: RFG Bed 1

Order Number: 84439  
 Lab Number: S251117-112  
 Area Sampled: 92 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)	6.5		Cation Exch. Capacity, meq/100g	11.3	
Modified Morgan extractable, ppm			Exch. Acidity, meq/100g	3.1	
<i>Macronutrients</i>			<b>Base Saturation, %</b>		
Phosphorus (P)	7.0	4-14	Calcium Base Saturation	57	50-80
Potassium (K)	53	100-160	Magnesium Base Saturation	14	10-30
Calcium (Ca)	1298	1000-1500	Potassium Base Saturation	1	2.0-7.0
Magnesium (Mg)	188	50-120	<b>Scoop Density, g/cc</b>	1.20	
Sulfur (S)	15.2	>10	<b>Optional tests</b>		
<i>Micronutrients *</i>			Soil Organic Matter (LOI), %	5.1	
Boron (B)	0.1	0.1-0.5	Soluble Salts (1:2), dS/m	0.10	<0.6
Manganese (Mn)	0.8	1.1-6.3			
Zinc (Zn)	2.3	1.0-7.6			
Copper (Cu)	0.2	0.3-0.6			
Iron (Fe)	3.5	2.7-9.4			
Aluminum (Al)	54	<75			
Lead (Pb)	3.3	<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
<b>Phosphorus (P):</b>	████████████████████		████████████████████	
<b>Potassium (K):</b>	████████████████████			
<b>Calcium (Ca):</b>	████████████████████		████████████████████	
<b>Magnesium (Mg):</b>	████████████████████		████████████████████	████████████████████

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### *Recommendations for Home Vegetable Garden*

Limestone (Target pH of 6.5)	Nitrogen, N	Phosphorus, P2O5	Potassium, K2O
0	.25 - .3	0.2	0.25

#### Comments:

\*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 1.7 lbs. Bone Meal (4-12-0) OR 0.4 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 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>