Soil and Plant Nutrient Testing Laboratory
203 Paige Laboratory
161 Holdsworth Way
University of Massachusetts
Amherst, MA 01003
Phone: (413) 545-2311
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Soil Test Report

Prepared For:

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Sample Information:

Sample ID: OBFF-FALL2019-1

Order Number: 47791
Lab Number: S191028-111
Area Sampled: 6200 sq ft
Received: 10/28/2019
Reported: 11/5/2019

Results

Analysis	*Value Found*	*Optimum Range*
Soil pH (1:1, H2O)	6.5	
Modified Morgan extractable, ppm		
Macronutrients		
Phosphorus (P)	6.1	4-14
Potassium (K)	145	100-160
Calcium (Ca)	1358	1000-1500
Magnesium (Mg)	304	50-120
Sulfur (S)	11.2	>10
Micronutrients *		
Boron (B)	0.3	0.1-0.5
Manganese (Mn)	5.3	1.1-6.3
Zinc (Zn)	1.0	1.0-7.6
Copper (Cu)	0.1	0.3-0.6
Iron (Fe)	1.2	2.7-9.4
Aluminum (Al)	8	<75
Lead (Pb)	0.6	<22

Analysis	*Value Found*	*Optimum Range*
Cation Exch. Capacity, meq/100g	12.3	
Exch. Acidity, meq/100g	2.6	
Base Saturation, %		
Calcium Base Saturation	55	50-80
Magnesium Base Saturation	20	10-30
Potassium Base Saturation	3	2.0-7.0
Scoop Density, g/cc	1.07	
Optional tests		
Soil Organic Matter (LOI), %	2.5	
Soluble Salts (1:2), dS/m	0.10	<0.6
Nitrate-N (NO3-N), ppm	8	

* *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 Flowers, Roses, & Herbs

Limestone (Target pH of 6.5)	Nitrogen, N	Phosphorus, P2O5	Potassium, K2O
	lbs / 100 sq ft		
0	.1 - .2	0.1	0.1

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 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 organic matter in this soil is lower than desired for most herbaceous perennials. Consider adding finished compost or other source of organic matter to improve your soil conditions.
-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 Cut Flowers

Limestone (Target pH of 6.5)	Nitrogen, N	Phosphorus, P2O5	Potassium, K2O
	lbs / 1000 sq ft		
0	2 - 3	1	1

Comments:

-For additional information about growing Field-grown Cut Flowers, see the Reference below.

References:

Soil Fertility for Field-grown Cut Flowers	https://ag.umass.edu/soil-fertility-for-field-grown-cut-flowers

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