UConn Soil Nutrient Analysis Laboratory
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UCONN
COLLEGE OF AGRICULTURE, HEALTH AND NATURAL RESOURCES
EXTENSION & PLANT SCIENCE AND LANDSCAPE ARCHITECTURE

Soil Test Report

Order Number: 18501

Prepared For:

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Sample Information:

Sample Name: PC112222
Lab Number: 8299
Area Sampled:
Received: 12/2/2022
Reported: 12/12/2022

Results

Nutrients Extracted From Your Soil (Modified Morgan)

		Below Optimum	Optimum	Above Optimum	Excessive*
Calcium	**1092 lbs/acre**				
Magnesium	**236 lbs/acre**				
Phosphorus	**20 lbs/acre**				
Potassium	**137 lbs/acre**				

**** Excessive only defined for Phosphorus (>40 lbs/acre)***

Soil pH (1:1, H2O)	5.3
Est. Cation Exch. Capacity (cmole+/100g)	12.8
Buffered pH (Mod. Mehlich)	5.8

Base Saturation	***%***	***Suggested***
Potassium	1	2.0 - 7.0
Magnesium	8	10 - 30
Calcium	21	40 - 50

Element	***ppm***	***Soil Range in CT***
Boron (B)	0.1	0.1 - 2.0
Copper (Cu)	0.3	0.3 - 0.8
Iron (Fe)	14.8	1.0 - 40.0
Manganese (Mn)	5.1	3.0 - 20.0
Zinc (Zn)	3.8	0.1 - 70.0
Sulfur (S)	16.6	10 - 100
Aluminum (Al)	82.9	10 - 300
Est. Total Lead (Pb)	low	

Limestone & Fertilizer Recommendations for Needleleaf Trees & Shrubs

Limestone (Target pH of 6.0)

13 lbs / 100 sq ft

Comments:

LIMESTONE:
Apply ground limestone as recommended to raise the soil pH. For new plantings, work the entire amount into the top 6 to 8 inches of soil before planting. For established beds, gently scratch in limestone into soil around plants. If more than 10 lbs of limestone per 100 sq. ft. is recommended, put one-half down now and the other half in a month or more.
FERTILIZER:
Soil test levels for POTASSIUM are BELOW OPTIMUM.

Apply 1 pound of 5-10-10 or the equivalent per 100 square feet. See the SUGGESTED FERTILIZER PRACTICES TREES, SHRUBS, VINES AND GROUNDCOVERS fact sheet for instructions on how and when to add fertilizer.

If you have questions about this report or fertilizer recommendations, contact the UConn Soil Nutrient Analysis Lab at (860) 486-4274 or email soiltest@uconn.edu.

If you have questions about any other plant, pest or disease problems, contact the UConn HOME and GARDEN EDUCATION CENTER, Dept. of Plant Science and Landscape Architecture. Phone: (877) 486-6271; email:ladybug@uconn.edu; website:www.homegarden.cahnr.uconn.edu.

Limestone & Fertilizer Recommendations for Deciduous Trees & Shrubs

Limestone (Target pH of 6.3)

15 lbs / 100 sq ft

Comments:

LIMESTONE:
Apply ground limestone as recommended to raise the soil pH. For new plantings, work the entire amount into the top 6 to 8 inches of soil before planting. For established beds, gently scratch in limestone into soil around plants. If more than 10 lbs of limestone per 100 sq. ft. is recommended, put one-half down now and the other half in a month or more.
FERTILIZER:
Soil test levels for POTASSIUM are BELOW OPTIMUM.

Apply 2 pounds (4 cups) of 5-10-10 or the equivalent per 100 square feet. See the SUGGESTED FERTILIZER PRACTICES TREES, SHRUBS, VINES AND GROUNDCOVERS fact sheet for instructions on how and when to add fertilizer.

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Limestone & Fertilizer Recommendations for Flowers (Annuals, Perennials, Bulbs) & Ornamental Grasses

Limestone (Target pH of 6.5)

15 lbs / 100 sq ft

Comments:

LIMESTONE:
Apply ground limestone as recommended to raise the soil pH. For new plantings, work the entire amount into the top 6 to 8 inches of soil before planting. For established beds, gently scratch in limestone into soil around plants. If more than 10 lbs of limestone per 100 sq. ft. is recommended, put one-half down now and the other half in a month or more.
FERTILIZER:
Soil test levels for POTASSIUM are BELOW optimum.

Incorporate per 100 sq ft, 2 lbs (4 cups) of 10-10-10 PLUS 0.5 lb (1 cup) of 0-0-60 (potash) OR 1.5 lbs (2 cups) of 0-0-22 (sul-po-mag) the equivalent from other sources See Section III on the SUGGESTED FERTILIZER PRACTICES for FLOWERS fact sheet for instructions on when and how often to apply the fertilizer recommended above.

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References (Crop Related):

Soil Test Interpretation and Recommendations	https://soiltesting.cahnr.uconn.edu/wp-content/uploads/sites/3514/2022/06/Standard-Nutrient-Analysis.pdf
Suggested Fertilizer Practices for Flowers	https://soiltesting.cahnr.uconn.edu/wp-content/uploads/sites/3514/2022/06/Flowers.pdf
Suggested Fertilizer Practices for Trees, Shrubs, Groundcovers & Vines	https://soiltesting.cahnr.uconn.edu/wp-content/uploads/sites/3514/2022/06/Tree-Shrubs-and-Vines.pdf
Fertilizer Conversions & Garden Measurements	https://soiltesting.cahnr.uconn.edu/wp-content/uploads/sites/3514/2022/06/Fertilizer-Conversions-Garden-Measurements.pdf