Rutgers Cooperative Extension Resource Center

Soil Testing Laboratory
Rutgers, The State University
P.O. Box 902
Milltown, NJ 08850-0902
Phone: (732) 932-9295

Soil Test Report

Lab No: 2000-3915

Name: Ellen Nevins

Address: 1 Silverthorn Lane
Belle Meade, NJ 08502

Phone: (908) 874-5939

Fax:

Referred To: Rutgers Cooperative Ext. of Somerset County
(908) 526-6293

Date Received: 06/12/2000
Date Reported: 06/23/2000
Serial No: ET -
Sample ID:

Crop or Plant

New Lawn, Cool Season - Grass

Soil Tests and Interpretation

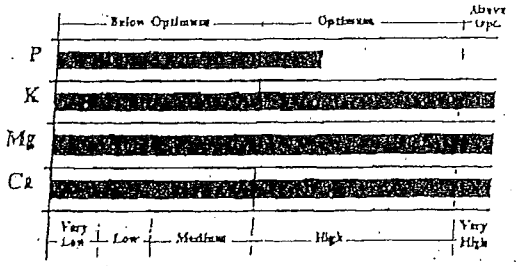
Soil Texture: Clay Loam

pH: 6.10

Slightly acidic, the optimum range of pH for most plants; somewhat high for acid-loving plants.

Macronutrients (pounds/acre)

Phosphorus:	92	(Optimum)
Potassium:	402	(Above Optimum)
Magnesium:	499	(Above Optimum)
Calcium:	2323	(Above Optimum)



Micronutrients (parts per million)

Zinc: 2.4 (Adequate) Copper: 4.7 (Adequate) Manganese: 105 (High) Boron: 0.8 (Adequate)

Manganese may be toxic to sensitive crops when grown on low pH soil. Adding lime to the soil raises the pH and decreases manganese toxicity. Liming is generally not recommended for acid-loving plants, which are more tolerant of high levels of manganese.

Special Tests and Results

Electrical Conductivity: Soluble Salt Level = 0.08 mmho/cm (Low soluble salt content)
Gravel Content: Larger Than 2mm = 22.05%
Mechanical Analysis: Sand = 35%, Silt = 34%, Clay = 31%, Texture = Clay Loam
Soil Organic Matter: Organic Matter = 2.37%, Organic Carbon = 1.37%

Lime Recommendation

The soil test indicates a slightly acidic soil and is in the best range for the growth of most Lawn. Do not apply any limestone.

Fertilizer Recommendation

New Grass -

The soil tests indicate high phosphorus (P) and very high potassium (K) fertility levels. The soil should be treated with 1

pound per 1000 sq. ft. of nitrogen (N), 2 pounds per 1000 sq. ft. of phosphorus pentoxide (P2O5), and 1 pound per 1000 sq. ft. of potash (K2O).

Any of the following fertilizer grades and amounts may be used to supply the needed amounts of nutrients. Other fertilizer grades containing the appropriate ratio (1-2-1) of nutrients may be used. Use fertilizers containing 30-60% of the nitrogen in slow-release form (Water Insoluble Nitrogen).

Grades: 10 pounds 10-20-10, 16.5 pounds 6-12-6, or 20 pounds 5-10-5

Spread the indicated amount of pounds/1000 sq. ft. per application of one of these fertilizers evenly over the surface and mix in to 6 inches before seeding. 2-4 weeks after emergence, apply 1/2-1 pound of N per 1000 sq. ft. in a 2-1-1 grade.

Comments

Topsoil Evaluation: this soil is not suitable as topsoil to be transported to a new site and used as planting media. The gravel content is excessive, and the clay content is high. These soil properties make working with the soil difficult, and the high clay content makes the soil suspecptible to compaction and poor permeability. The chemical properties, however, are satisfactory.