



# LABORATORY ANALYSIS AND RECOMMENDATION REPORT

Report For: Bill Smedley

R R 1 Box 99  
Somewhere, IL 60000-

Report For: Morton High School

Order No.: 211842  
Location Name: Sod or Turf  
Area Name: Sod/Turf

Sample Number	Water pH	Buffer pH	Pounds Per Acre				Percent Organic Matter
			Phosphorus	Potassium	Calcium	Magnesium	
Excessive							
High							
Optimum							
Low							
Deficient							
Average	6.1	6.6	46	240	4600	1040	3.6

## About Your Lawn and Garden

### General Comments:

1. Water pH is very important and can be critical for certain plants. A pH between 6 and 7 is adequate for most horticultural plants. The buffer pH is used only for determining the lime recommendation.
2. To apply large amounts of limestone or sulfur, split the applications and apply up to 50# or 5#/1000 sq ft of lime or sulfur, respectively. Always work the materials into the soil as thoroughly as possible, especially before planting.
3. Lawns: Nitrogen is usually the primary nutrient needed. There are generally 3 types of fertilizer blends available:

Maintenance: ex. 29-3-5, 32-3-5 (mostly nitrogen)  
 Starter: ex. 16-24-10, 20-28-5 (higher phosphate)  
 Fall or 'Winterizer': ex. 32-3-10, 25-5-15 (higher potassium)

Recommendations use 1 or a combination of these blends to meet the nutrient requirements of the turf. Major holidays are good reminders when to fertilize. For 102 applications/year, apply at Labor Day and/or around Thanksgiving. For additional applications, choose April and/or Memorial Day.

4. Fertilizer blends are identified by the % of nitrogen (N), phosphorus (P), and potassium (K) in the bag. A general lawn fertilizer like 29-3-9 has 29% N, 3% P, and 9% K. Each pound of fertilizer then applies .29, .03, and .09 # of NPK to the area covered. A 50 # bag would contain 14.5 #N, 1.5 # P, and 4.5 # K (50 x .29, .03, and .09); and if spread over 10,000 sq ft would apply 1.45 #N, .15# P, and .45# K on each 1000 sq ft of lawn.

5. Beds or Gardens: 1-2# of 5-10-5 or similar/100 sq ft (1# = 2 cups = 1 tsp/sq ft) every 30-45 days. Gardens: ¼ #N/100 ft of row (=2# of urea). These are general recommendations-amounts can vary depending on vegetable grown.

6. Soluble or liquid fertilizers: Choose a blend that most closely satisfies the recommendation and follow the label. (ex. 9-59-8, 18-6-12, 20-20-20)

7. For trees and shrubs: 3-6# N/1000 sq ft/every 1-2 years: mature trees at ½ rate.

### Recommendations:

*By following these recommendations you will optimize your plots attractiveness. We highly recommend soil testing each year to properly address fertility, maximizing your plots effectiveness.*

Recommendation For	Lbs / 1000 sq ft		Fertilizer Blend to Apply*
	Lime	Sulfur	
Sod	73.56	0	32 - 2 - 10

*\*Or use a blend with a similar ratio. Always read and follow bag directions.*

### Specific Comments: