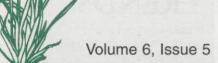
TurfGrass TRENDS



May 1997

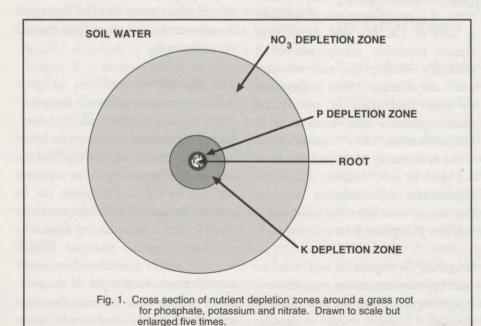
GREEN SECTION LIBRARY
DO NOT REMOVE

Phosphorus Usage by Turfgrasses The Energy Nutrient

Often Neglected by Turf Managers

by Richard J. Hull University of Rhode Island

Of the three general fertilizer nutrients, nitrogen (N), phosphorus (P) and potassium (K), phosphorus is often the least understood and the most neglected. While the N and K content of grass leaves is about 3-4% of their dry weight, that of P is only one-tenth as much at 0.3-0.4% (Turner and Hummel 1992). This lower quantity in plant tissues and the fact that obvious P deficiencies are almost never observed in turf may contribute to its lesser standing among many turf managers. However, few nutrient elements play a more pivotal role in the metabolic processes of all living organisms including turfgrasses. In this article, the second in a series on turfgrass nutrients, I will outline some of those important functions performed by P and show how they



IN THIS ISSUE

P Availability in the Soil

Phosphate Absorption by Grass Roots

Metabolic Rates of P

Phosphorus in Macromolecular Structure

P Circulation in Plants

The Functions of P in Turf

Cody Buffalograss

Tatanka Buffalograss

New Vegetative Releases

From the Editor 15