

Turf Grass TRENDS



[Vol. 3]
Volume 4, Issue 9

September 1994

Nitrogen fate

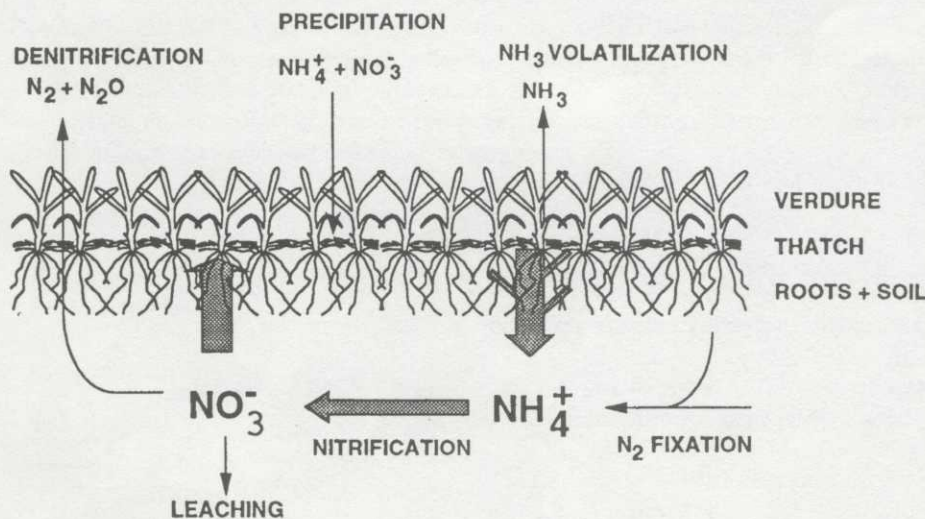
What happens to it and where does it go?

by Dr. Richard Hull

The appetite of turfgrasses for nitrogen seems to be insatiable. It does not matter how old or how young the turf stand may be or what type of nitrogen source is

applied to it; turfgrasses love nitrogen. So much so that, given the opportunity, they will take in more nitrogen than they can use, often to their own detriment. Yet, if a nitrogen fertilizer application is missed, the turfgrass will often go off color. In fact, only about 80% of the fertilizer that is applied

Nitrogen cycle in the turf-soil ecosystem



All natural inputs and losses of nitrogen are identified as well as chemical transformations. Mineralization of soil organic nitrogen is not shown nor is fertilizer input.

Figure from Hull, Alm and Jackson, 1994. Toward Sustainable Lawn Turf. p. 3-15. In A.R. Leslie (ed.) Handbook of Integrated Pest Management for Turf and Ornamentals, Lewis Pub. Boca Raton, FL.

IN THIS ISSUE

IN-DEPTH ARTICLES

- Nitrogen fate 1
by Dr. Richard Hull
- Turf can gain nitrogen 2
by Dr. Richard Hull
- Gaseous nitrogen losses 3
by Dr. Richard Hull
- Steps to reduce leaching 7
by Dr. Richard Hull
- Nitrate into ground water shows
low risk from golf greens 8
- Farm nitrogen loading: a major
cause of pollution 10

INTERACTIONS

- What we don't know may
hurt us 13
by Christopher Sann
- New editor takes helm 14
by Juergen Haber

NEWS BRIEFS

- EPA rules to establish pesticide
management zones 11
- Clippings increase turf canopy
temperature 11
- Over \$12.5 billion spent on
America's lawns 11
- Tolerance of grasses studied by
Japanese 12
- Nine states okay home study
pesticide recertification 12
- Studds' bill to tax pesticide, fer-
tilizer makers 12

COMING ATTRACTIONS. 15

ASK THE EXPERT 15