NITRIFICATION vs DENITRIFICATION

Conversion of nitrogen containing Nitrification Materials to a plant useable form **TURF SUPREME** Nitrite and nitrate-forming Ammonium Phosphate bacteria and oxygen Ammonium Sulfate Nitrite in ammonium nitrate calcium nitrate Urea Manure NH₃ NO₂ oxygen Decomposing ammonia nitrite plant residues (can be volatile) NO3-NH₄+ nitrate ammonia (moves with water, can leach) These steps do not require These steps require oxygen and take place even in a very wet soil hence a nitrogen deficiency oxygen and so can take ofter show in wet areas. place even in very wet soil.

Denitrification

Loss of plant useable Nitrogen to the atmosphere



