

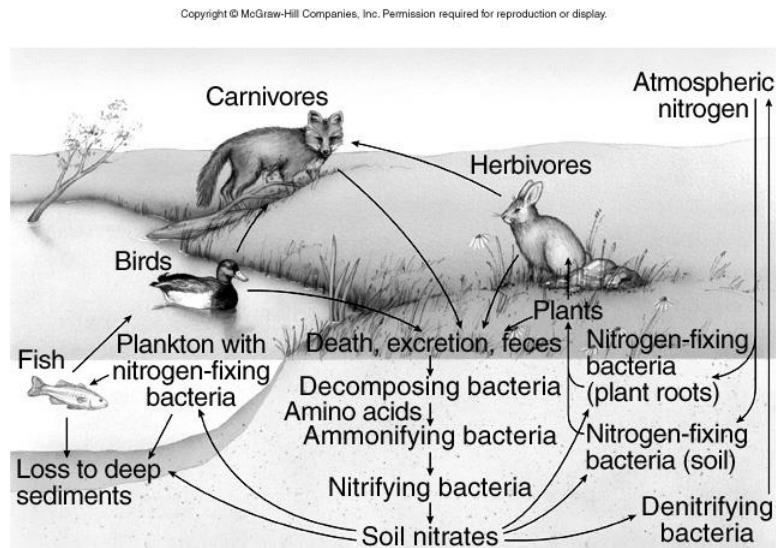
PLANT PHYSIOLOGY Lecture 14 - Nitrogen and Sulfur Metabolism

I. Importance of nitrogen and sulfur metabolism

A. Nitrogen and sulfur are abundant in plants

1. Nitrogen is the fourth most abundant after C, H, and O
 - a) Present as protein (amino acids) and chlorophyll
 - b) Present in amides, nucleotides, and nucleoproteins
2. Sulfur is pretty important too
 - a) Present as part of protein (in cystine, cysteine, and methionine)
 - b) Present in glutathione, coenzyme A, and some vitamins

II. Example of metabolic trace - nitrogen metabolism



III. Example of integrated metabolism - sulfur metabolism

