Soil Food Web Functions - metabolic and behavioral activities of organisms that impact the biotic or abiotic components of the ecosystem

Feeding: Ingestion, assimilation, defecation and excretion

Behavior: Movement, activity, migration

Functions may be classified, subjectively, as Services, Disservices (or Neutral) Disservices:

Damage plants of agricultural or ornamental significance Injure humans and vertebrate animals

## Services:

Sequester and redistribute minerals Mineralize organic molecules Accelerate turnover Regulate and suppress pests Alter substrate to provide access to other organisms

Redistribute organisms in space

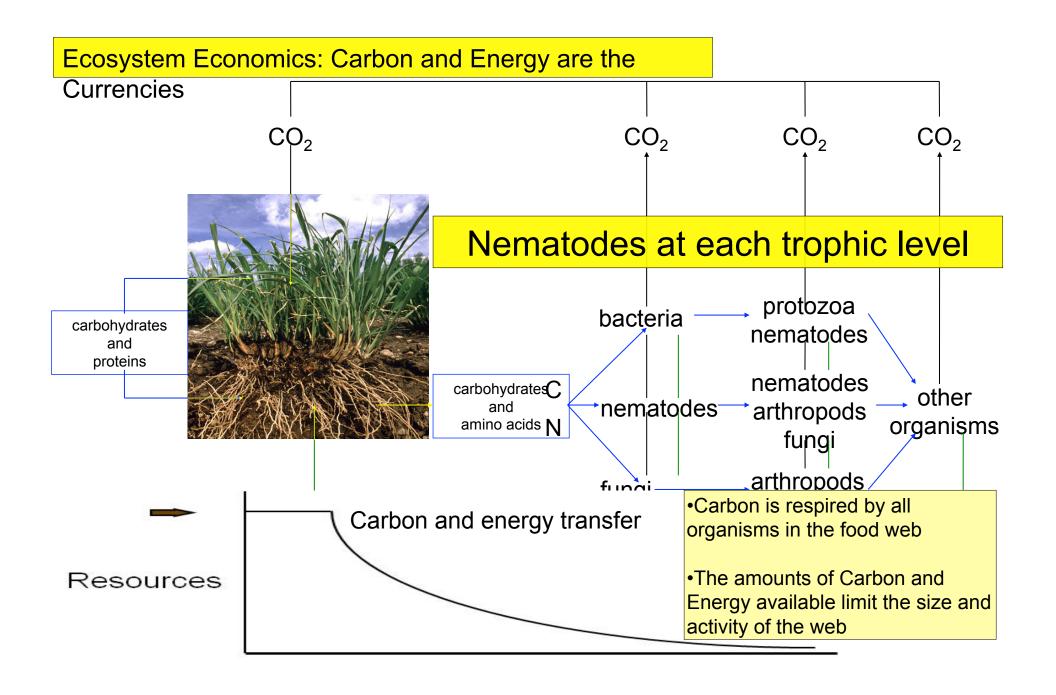
**Biodegrade toxins** 

Reduce soil erosion

Increase agricultural production

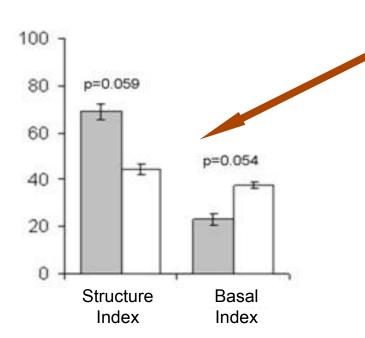
Individual species services

Aggregate food web services

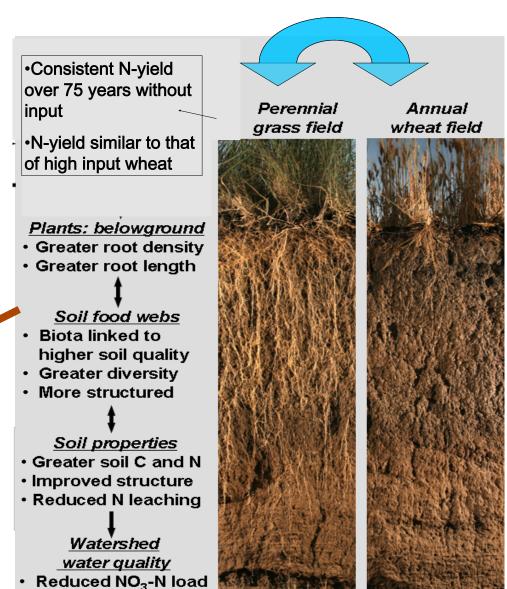


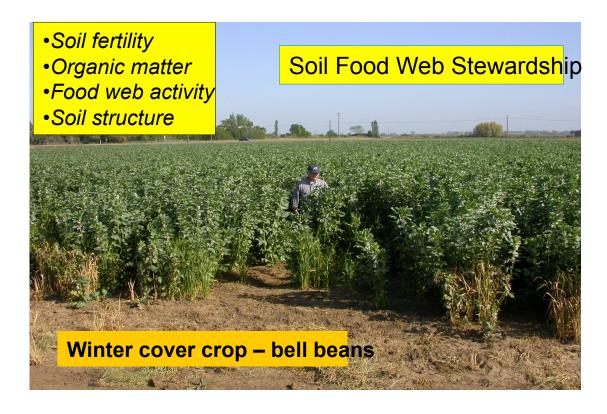
## Land-use change in Kansas: Effects on Nematode Faunal Structure

Resource Inputs:
Bottom up effects on Soil Food
Web Structure and Function



From Glover et al., 2010





Keep roots in the soil!

