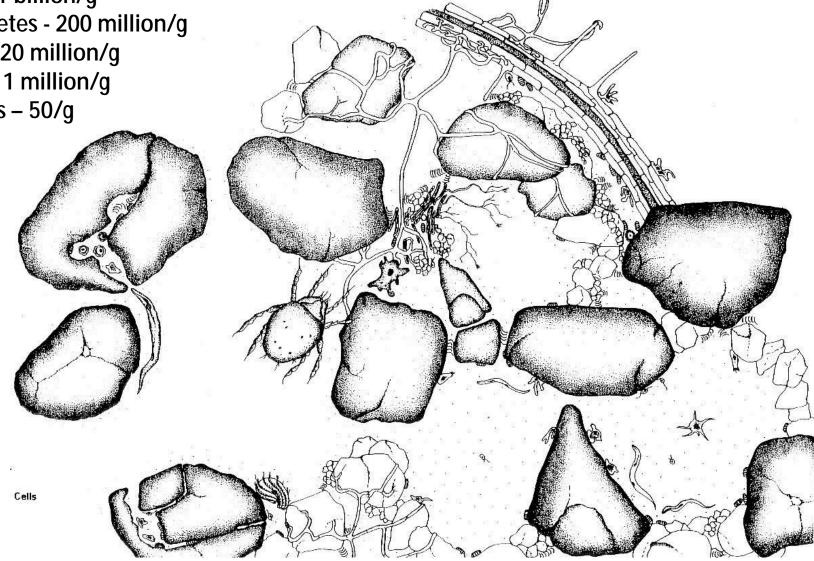
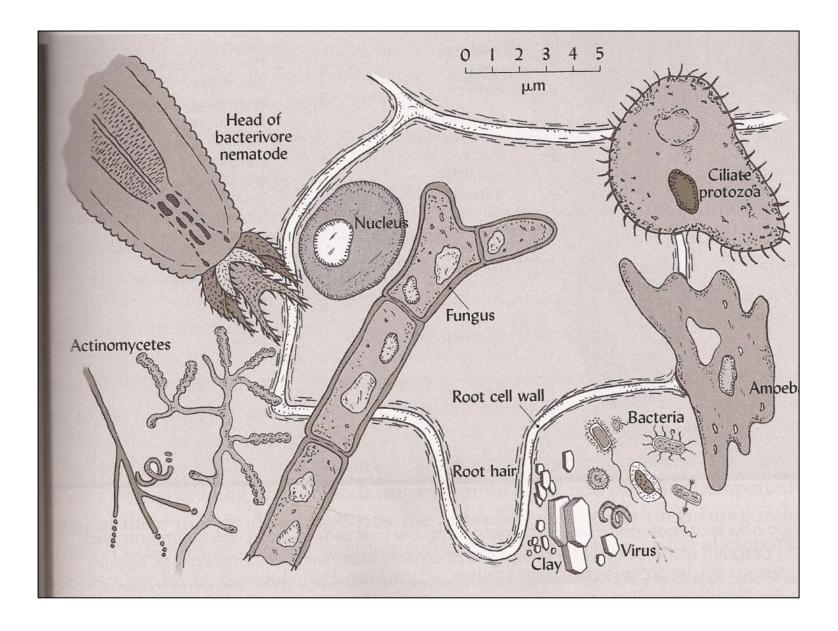
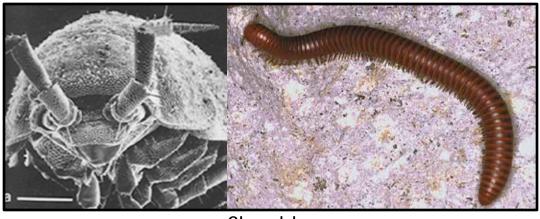


Bacteria – 1 billion/g Actinomycetes - 200 million/g Fungi – 10-20 million/g Protozoa – 1 million/g Nematodes – 50/g

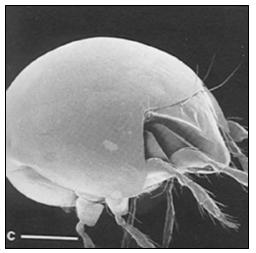




### Soils: Management and conservation Survey: Mesofauna and Macrofauna



Shredders



Fungal feeder – orabatid mite



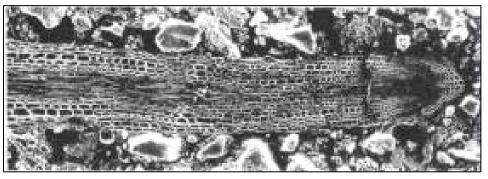
Predators



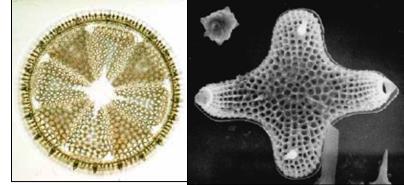
Herbivore

Images from NRCS: http://soils.usda.gov/sqi/concepts/soil\_biology/biology.html

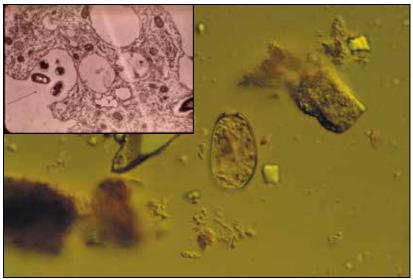
# Survey: Soil Flora and Microfauna



Plant root, Fig 10.10



Diatoms, http://www.ucmp.berkeley.edu/chromista/diatoms/



Protozoa: amoeba eating bacteria



#### Root feeding nematode

Images from NRCS: http://soils.usda.gov/sqi/concepts/soil\_biology/biology.html

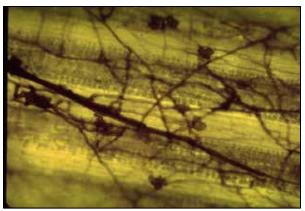
## Survey: Soil Micro-organisms



Soil bacteria



Bacteria on fungi



Fungi decomposing leaf tissue

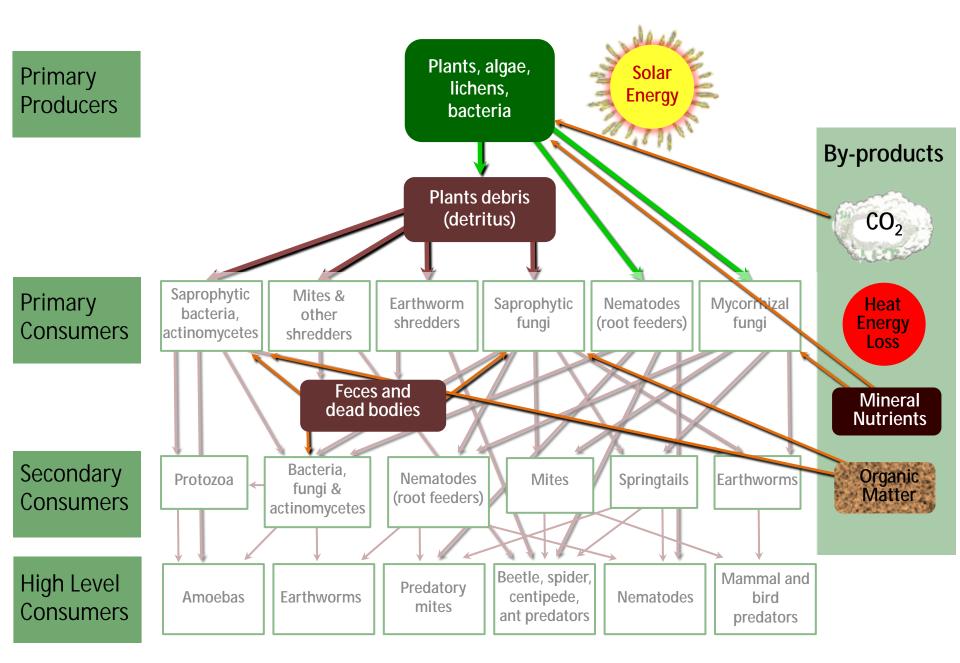


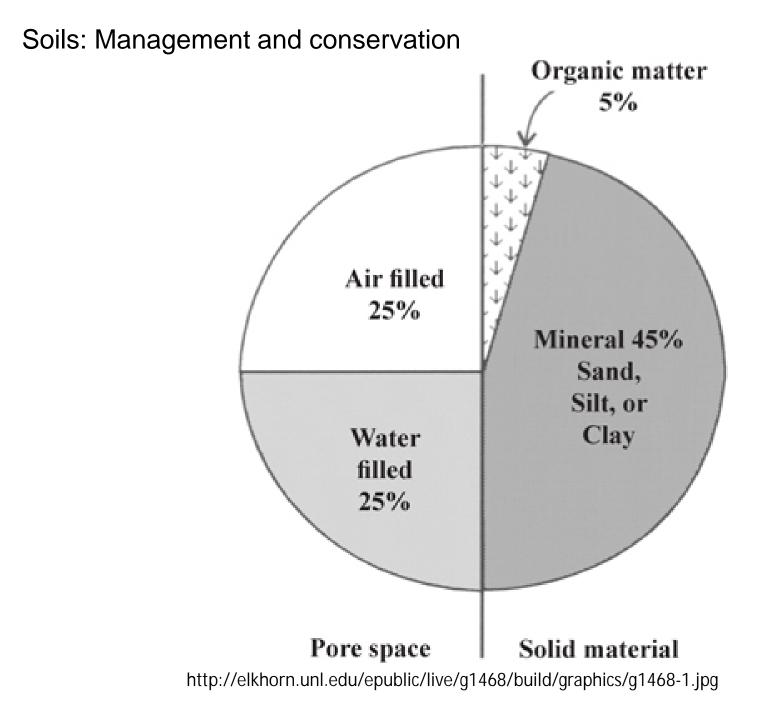
Mycorrhizal bodies and hyphae

Ectomycorrhizae

Vesicles

Images from NRCS: http://soils.usda.gov/sqi/concepts/soil\_biology/biology.html

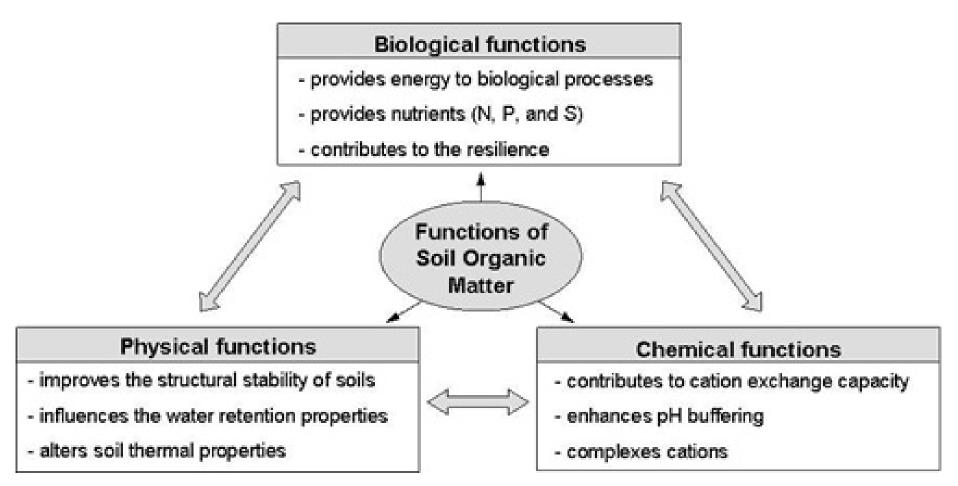


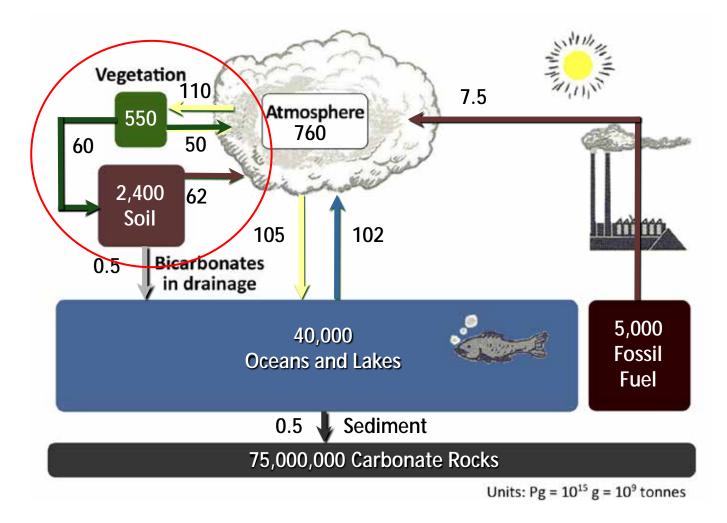




### "SOM is a key indicator of soil health because it plays a role in a number of key functions."

Dr. Jeff Baldock, CSIRO Land and Water





Soil properties





