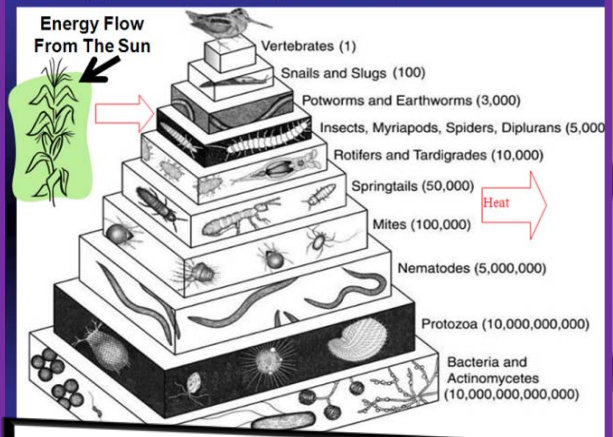
Foodweb Analysis (Soils)

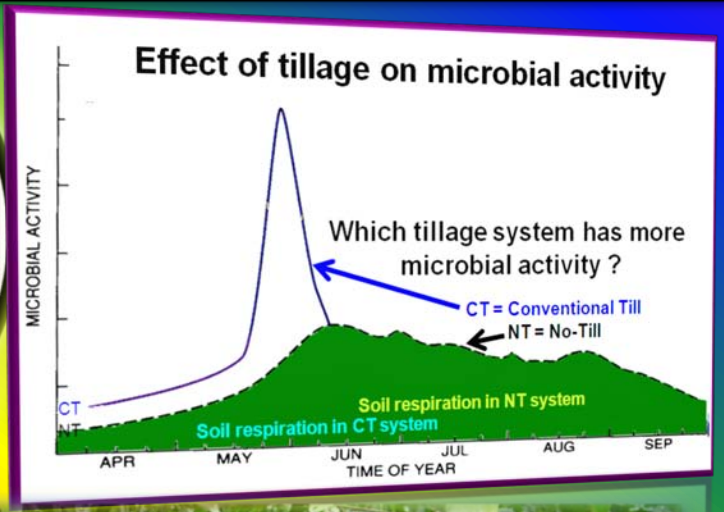
Organism Biomass Data	Dry Weight	Active Bacteria (µg/g)	Total Bacteria (µg/g)	Active Fungi (µg/g)	Total Fungi (µg/g)
Results	0.860	30.1	1458	14.0	329
Comments	Above Range	Above range	Above range	In range	Above range
Expected Range Low	0.45	15	100	10	50
Expected Range High	0.85	25	300	20	175

	Protozoa (Numbers/g)			Total	Mycorrhizal Co
	Flagellates	Amoebae	Ciliates	Nematodes #/g	ENDO
Results	1607	6674	37	7.99	Not Ordered
Comments	Low	High	Low	Low	
Expected Range Low	5000	5000	50	20	40%
Expected Range High			100	30	80%

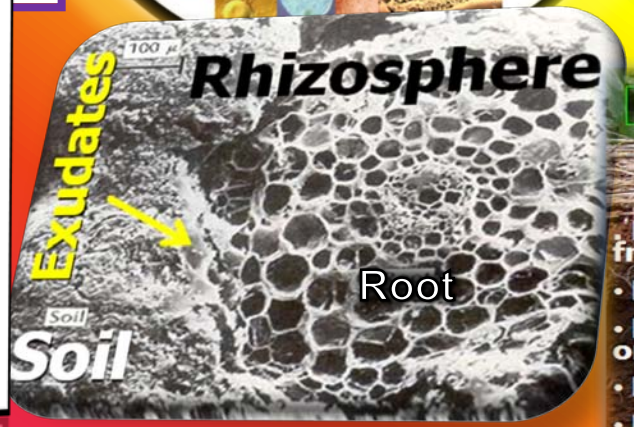
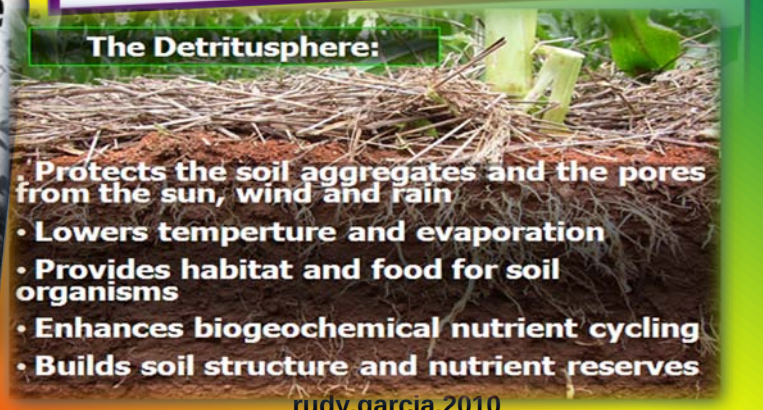
Organism Biomass Ratios	Total Fungi to Tot.Bacteria	Active to Total Fungi	Active to Total Bacteria	Active Fungi to Act.Bacteria	Plant Available N Supply (lbs/ac)
Results	0.23	0.04	0.02	0.46	25-50
Comments	Low	Low	Low	Low	

Energy Flow in agroecosystems





Nutrient Cycling
Carbon/Nitrogen Ratios

• Soil Microorganisms, Bacteria *	5/1
• SOM, Mollisol Ap horizon *	11/1
• Young Alfalfa Hay *	13/1
• Rotted barnyard manure *	20/1
• Mature Alfalfa Hay *	25/1
• Protozoa **	30/1
• Corn Stover *	57/1
• Wheat Straw *	80/1
• Newspaper *	120/1
• Deciduous Wood **	300/1

Source:
*The Nature and Properties of Soils, fourteenth Edition. Nyle C. Brady and Ray R. Weil
** Elaine R. Ingham, Soil Food Web