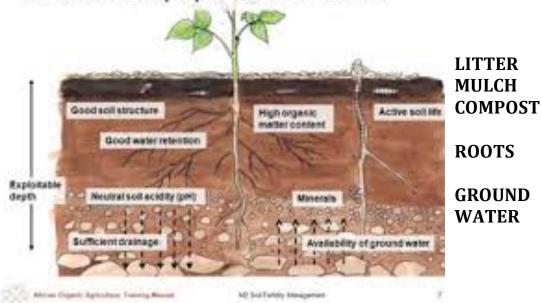


Rhizosphere: Understanding baseline, biological energy transfer.

The measurable properties of a fertile soil



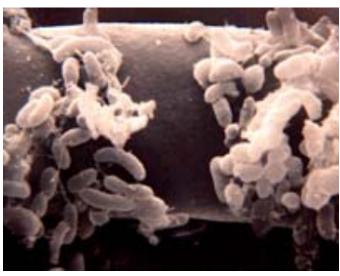
The Rhizosphere refers to the critical subsurface root zone where biological activity transitions Litter to Mulch to Compost to nutrients. The reduction in material size is matched by reduced size of organisms at each layer. These layers also protect roots from atmospheric temperature and moisture spikes. In natural systems the invisible soil bacteria attach to root hairs and facilitate uptake of critical nutrients, through biochemical processes. Some of these processes also deter diseases. We inoculate plant roots with this bacteria.



Macro debris:
Leaves, stems, twigs
and bark are
referred to as
Mulch. This
material is broken
apart by specialized
Macro Invertebrate
Species, which live
in the mulch.



Meso debris: As mulch becomes further reduced it is referred to as Compost. This material is now partially digested by smaller, resident Meso Invertebrate Species.



Micro Invertebrate Species of Bacteria create chemical microclimates which provide nutrients in an acceptable form for absorption by roots. Soil pH is Critical to this role.