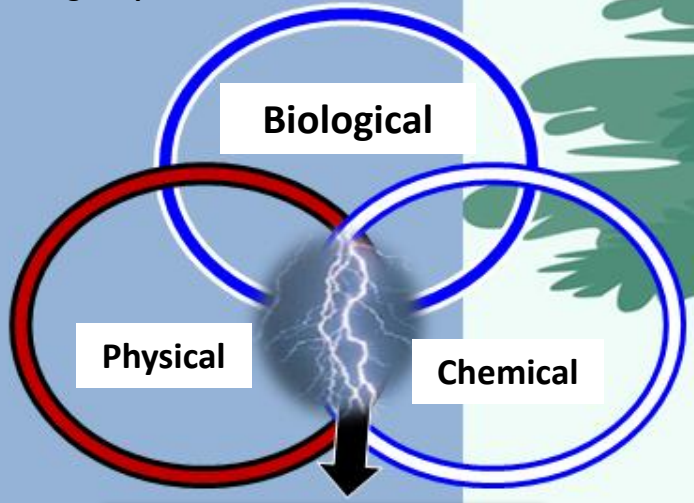
Soil is the Heart of the System

- Connects above and below
- Ultimate recycler of C, N, O, and other nutrients
- Drives physical, chemical, and biological processes , and much more.



Unleashing Soil Health
(Emphasis: understanding Dynamic Soil Properties)

Biodiversity with minimal soil disturbance drives soil health (NOTE: the Soil Food Web is sustained by Root Exudates, Glomalin, Crop Residues, Manure, Compost, Predator-Prey relationships , Plant Symbiosis, and Soil Humus).

Soil Temperature

Root Exudates (Liquid Carbon)

Soil Respiration (CO_2)

Soil Moisture Tension (matric potential)

Oxygen (O_2)

Rhizosphere

pH

Salinity (osmotic potential)

Soil Food Web