

Glomalin glues soil particles together.


Glomalin: an Arbuscular Mycorrhizal glycoprotein
Mycorrhizal fungi.

Soil Microaggregate




Humus
(Humic and Nonhumic substances)

Clay-Humus Domain




CEC

Clay Domain: small stack of parallel clay particles.
(Clay < 0.002 mm dia.)



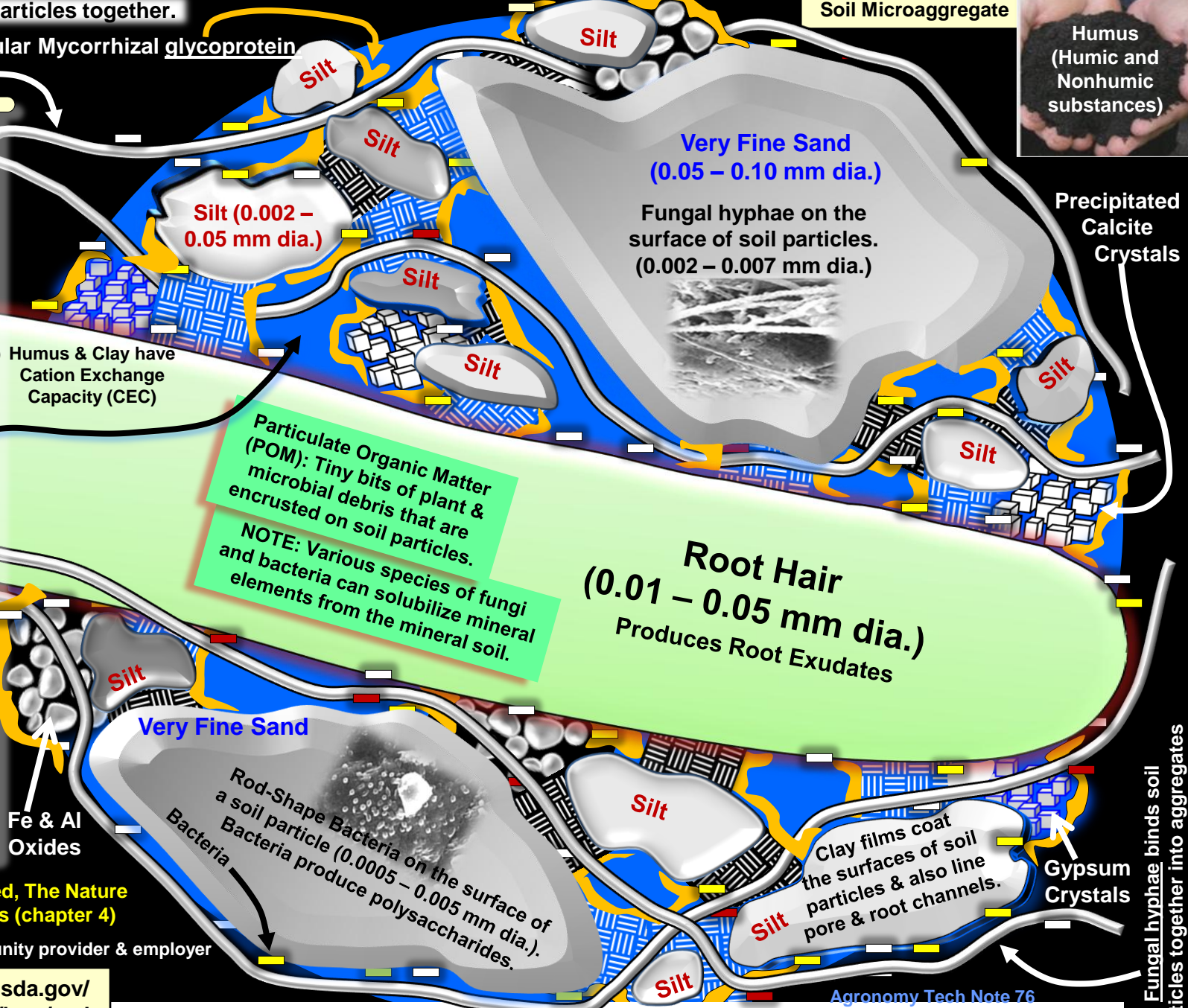
CEC

Humus & Clay have Cation Exchange Capacity (CEC)



Soil Solution

Water stored in the micropores:
Microbial & Root activity is affected by: pH, EC (salinity); soluble Organic Carbon & Nutrients; dissolved O₂ & CO₂; & Temp.

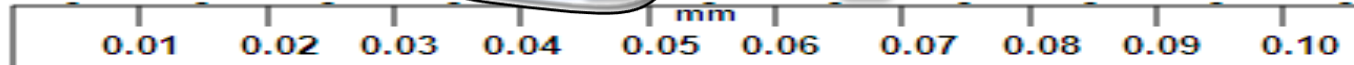


Ref.: 14th Edition revised, *The Nature and Properties of Soils* (chapter 4)

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<http://www.nm.nrcs.usda.gov/technical/handbooks/iwm/nmiwm.html>
rudy.garcia.2012

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Fungal hyphae binds soil particles together into aggregates