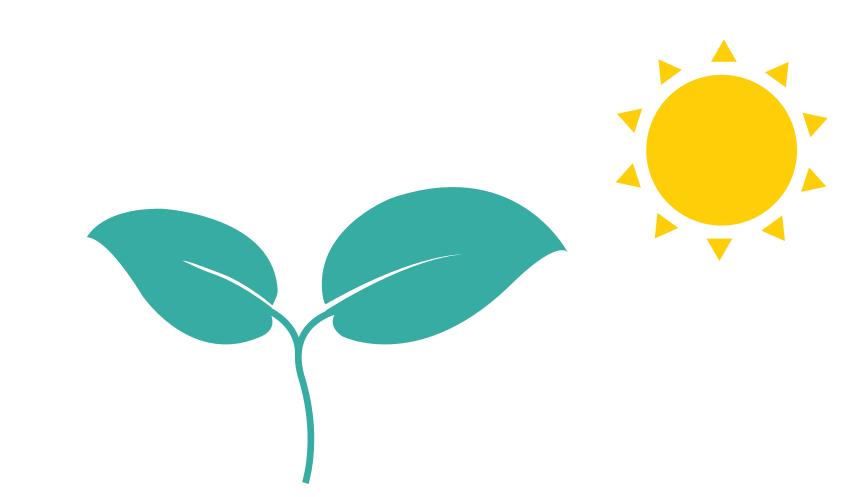
healthy soil secrets

keep it active and well-fed! healthy soil needs its exercise.



instead of leaving fields to rest or lay "fallow," keep plants in the ground year round and capitalize off all that free solar energy!



this provides a steady stream of fuel to power up your resident microbes, keeping them active & happy.

carbon from root inputs sticks around much longer than carbon from plant residues, helping to increase soil organic matter.



soil contains billions of microorganisms!

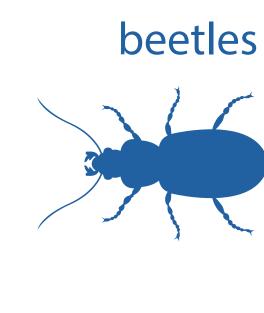
soils not only boast ¼ of the world's biodiversity, they hold the greatest concentration of biomass anywhere on the planet!

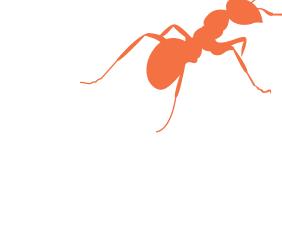




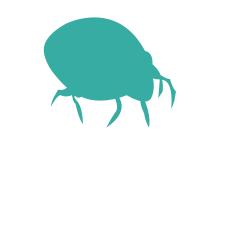




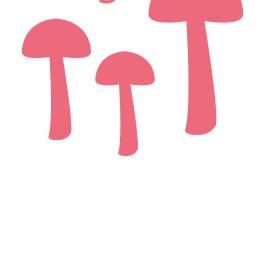




ants



mites



dead microbes make up 50-80% of soil organic matter.

although living microbes make up only ~0.5% of the entire soil,

rich, dark, stable
soil organic matter is formed!

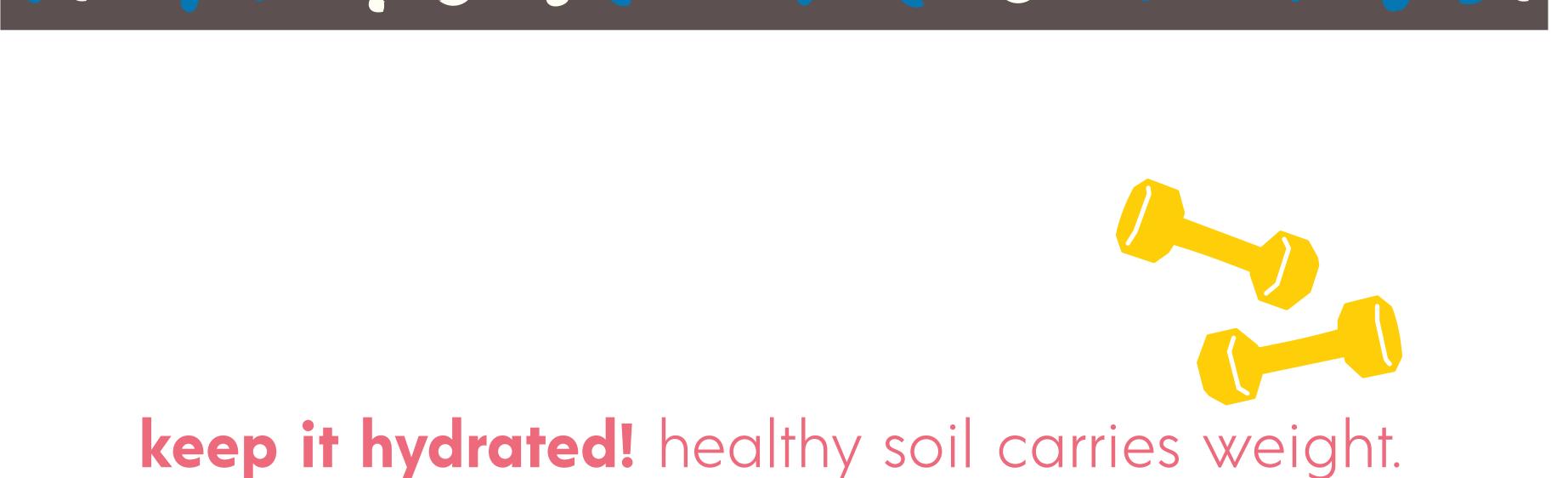


about half of a soil's volume should consist of open

an ideal breakdown would include:

pore space, allowing air and water to flow freely.

25% water, 25% air, 45% mineral • and 5% organic matter





soil organic matter holds approximately

10 times its weight in water.

for every 1% increase in soil organic matter, a soil can hold up

to 1 extra inch - or 20,000 extra gallons - of water/acre.

healthy soils harvest rainwater like sponges,



healthy soils need full-time coverage.



sow diversity by planting a cover crop mix of 6-12 different plants. the diversity above-ground breeds diversity below-ground as well!



pull nitrogen out of the atmosphere and into the

soil — free fertilizer for your cash crop.

currently, only ~5% of farms and 1% of total cropland

utilizes cover crops, so there is only room to grow!