



Healthy soils with conservation agriculture systems

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Abstract:

Soil is that the network of interacting living organisms at intervals the layer layer, that support life higher than ground ??? plants and animals, together with humans. Soil filters the rain and regulates the discharge of excess rain, preventing flooding; it's capable of storing giant amounts of organic carbon; it buffers against pollutants, together with dioxide. many folks don???t notice that soil, particularly healthy soil, is packed with life. Bacteria, algae, microscopic insects, earthworms, beetles, ants, mites, and fungi square measure among them. Altogether, their price has been calculable at \$1.5 trillion a year worldwide. The healthiest soils square measure those with a diversity and abundance of life. Farmers United Nations agency tailored Conservation Agriculture (CA) approach perceive that tillage, the turning of the soil that has been the quality for growing crops for years and years, is troubled to soil microbes and damaging to the soil system and its terribly structure. CA farmers grow a diversity of living plants within the soil the maximum amount of the time as sensible, covering the soil and providing food to soil microbes through living roots. Those soil organisms, in turn, cycle nutrients back to the plant.



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Publications:

1. Simulation of maize yield and N uptake under tropical conditions with the CERES- Maize model
2. Impacts of fertigation via sprinkler irrigation on nitrate leaching and corn yield on an acid
3. Application of PESTFADE to simulate nitrate leaching in a fertigated corn field in Thailand.
4. Evaluation of CERES-Maize of DSSAT model to simulate nitrate leaching, yield and soil moisture content under tropical conditions

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