



sustainability grows in healthy soil

unlock the
SECRETS
IN THE
SOIL

Is protecting America's natural resources – our rivers, lakes and streams, groundwater, air, and wildlife habitat – and reducing use of fossil fuels part of your corporate sustainability goals?

Do your customers demand products grown using good environmental stewardship practices?

Is your company interested in sustainability gains related to water, energy, carbon and the environment?

 
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Soil health matters.

Soil is made up of air, water, decayed plant residue, organic matter from living and dead organisms, and mineral matter, such as sand, silt, and clay. Increasing organic matter typically improves soil functions including nutrient cycling and water infiltration. Healthy soils are porous, and allow air and water to move freely through them.

Healthy, fully functioning soil provides an environment that sustains and nourishes plants, soil microbes, and beneficial insects. Crops grown in healthy soil are more resilient because they resist pest pressure and use nutrients more efficiently. Managing for soil health is one of the easiest and most effective ways for farmers to increase productivity and profitability while also improving the environment.

Sustainability Solutions in the Soil

Crops grown in healthy, productive soil provide a wide range of on- and off-the-farm sustainability benefits. Whether you do business with large-scale operations or small farms, healthy soil practices can be applied to all.

When farmers manage their land to maintain or improve soil health, we all harvest the benefits of improved sustainability.

Healthy soil...

Saves farmers money – since reducing or eliminating tillage means fewer passes over fields, and healthy soils use inputs like water and nutrients more efficiently, production costs are lower.

Boosts production – plants thrive because more organic matter and soil organisms improve soil structure, aeration, water retention, drainage, and nutrient availability.

Protects against drought – because healthy soil has greater water infiltration and holding capacity, more water is available to plants when they need it, like during periods of drought.

Safeguards resources – runoff that causes flooding or carries nutrients and pesticides into lakes, rivers, and streams is reduced. There is less leaching into groundwater. And, fewer trips across fields with farm machinery mean less fuel used and fewer emissions to harm air quality.

Ask your growers if they know about NRCS' Soil Health Management Systems.

Contact us: For more information, contact David Lamm, Soil Conservationist, NRCS East National Technology Support Center, Greensboro, NC, (336) 370-3339, david.lamm@gnb.usda.gov, or visit www.nrcs.usda.gov.

Growers who...

- **disturb the soil as little as possible**
- **use diverse crop rotations**
- **plant cover crops**
- **leave crop residue on the soil**

... have the key to sustainability!



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5/2/2014