



Introduction to Soil Health

Presenter Name Date Location





- 1. Define soil health and discuss why different words in the definition are important
- 2. List the primary functions of soil and impact on the environment or ecosystem
- 3. Describe importance of soil health in ag & society







"If we are bold in our thinking, courageous in accepting new ideas, and willing to work with instead of against our land, we shall find in conservation farming an avenue to the greatest food production the world has ever known..."

-Hugh Hammond Bennett September 18, 1943

Wikipedia



What Functions Would We Like our Soil to Provide?

- Produce food, feed, fiber, biofuels & medicine
- Capture, filter, and store water
- Cycle and recycle nutrients
- Resilience to drought, flood & temp extremes

- Protect plants from pathogens and stress
- Detoxify pollutants
- Store C and moderate release of gases
- Resist erosive forces



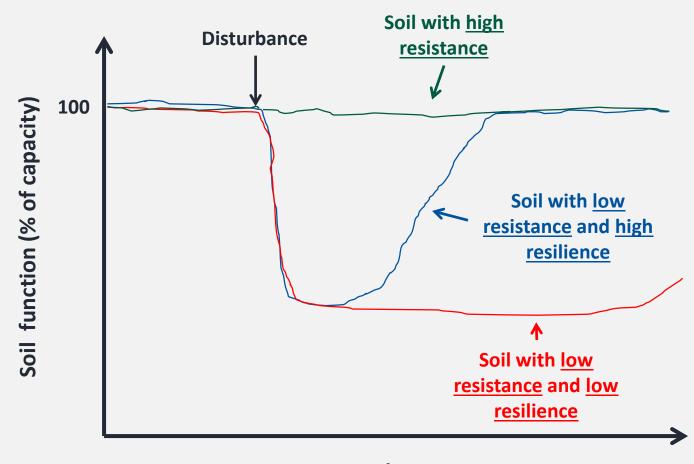
How does NRCS Define Soil Health?

The continued capacity of the soil to function as a vital living ecosystem that sustains plants, animal and humans.





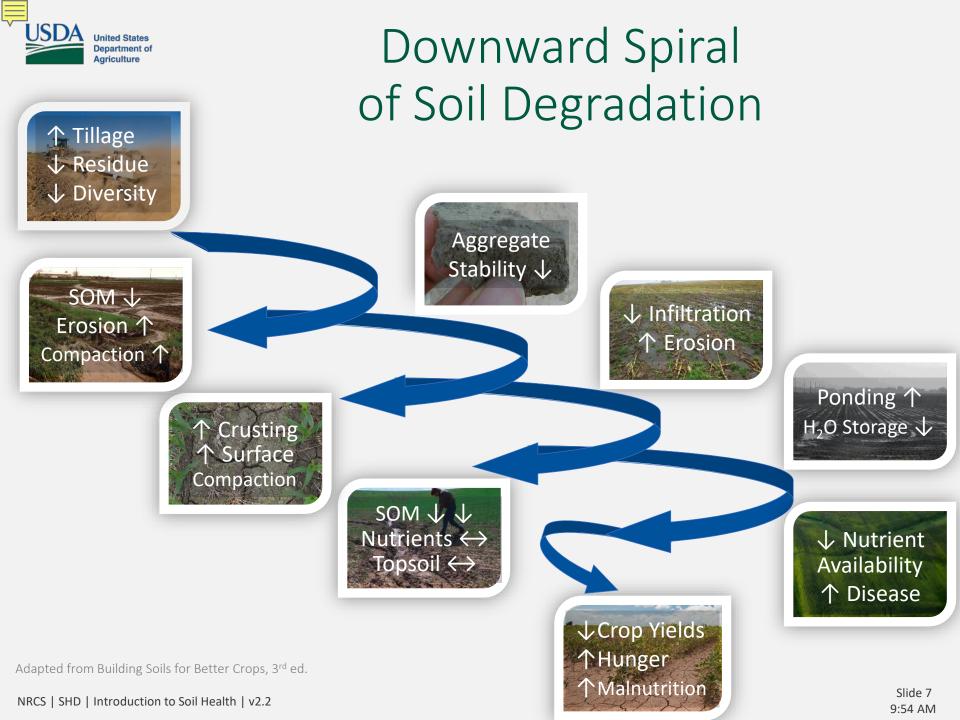


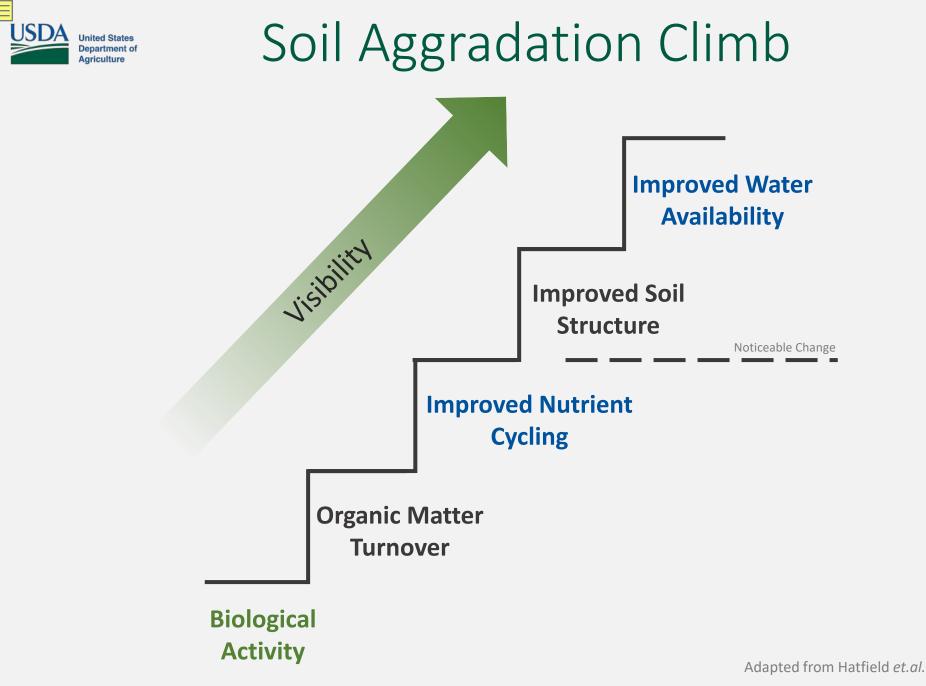


Time

United States

Department of Agriculture





Characteristics of Soil Function Loss



Lynn Betts, USDA-NRCS

Bob Nichols, USDA

Lynn Betts, USDA-NRCS

United States Department of

Agriculture





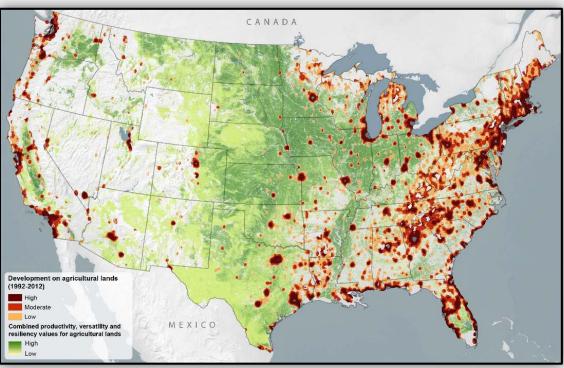
University of Tennessee

Inflation Solutions



Producing More on Fewer Acres – Development Pressure

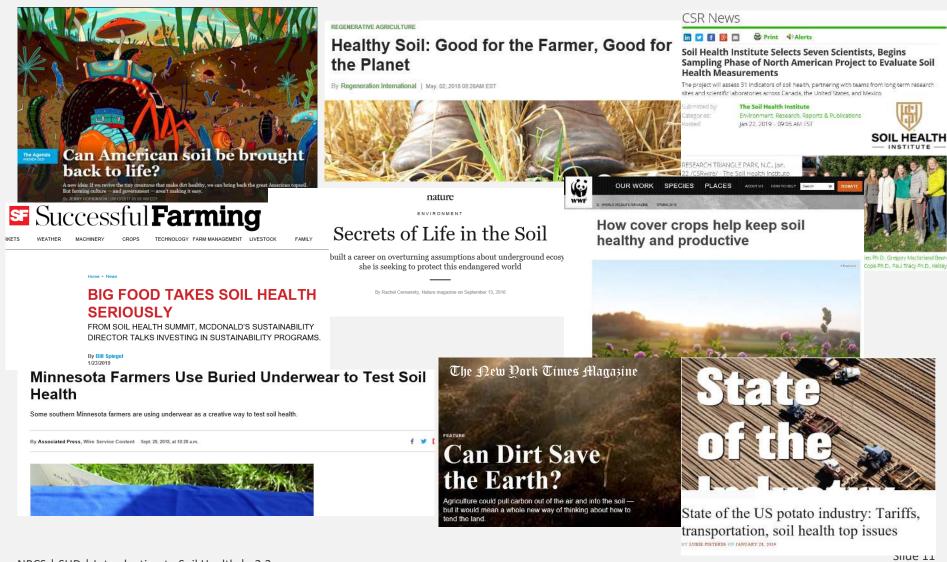
- Between 1992 and 2012, nearly 31 million acres lost
- 11 million were best farmland acres in the nation
- 62% of all development was on farmland



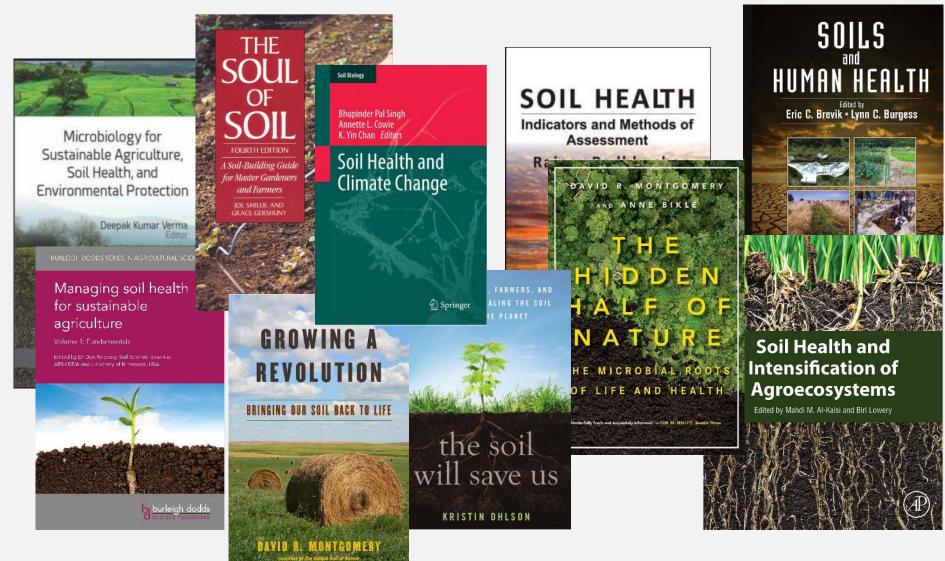
Farms Under Threat, Farmland Trust, May, 2018



Soil Health in Popular Press



United States Department of Agriculture Current Books Promoting Soil Health





Farmers are Catching the Vision of Improving Soil Function through Management ***





The Durands, St. Martin Parish, LA







