Resources for

Soil Carbon Sequestration: A Systems Perspective

Tuesday, May 18th: 1:30 to 3:00 p.m. Pacific/4:30 to 6:00 p.m. Eastern

In preparation for the panel discussion, BCL recommends review of these resources:

- Economics of soil health evaluated on 100 farms by the Soil Health Institute and Cargill
- Agricultural Renaissance Report
- Carbonomics by Keith Berns
- BCL’s January 6th Panel Discussion with Kiss the Ground on ‘The Growing Climate Solutions Act’
- BCL’s May 18th Panel Soil Carbon Sequestration: A Systems Perspective
Additional Resources

Webinars:

- Feb 4<sup>th</sup> CCEVA_Regenerative_Agriculture Forum, video link to Forum Recording, Appalachia YouTube
- Feb 11<sup>th</sup> broadcast on Regenerative Ag by EarthDay.org
- Agriculture and Climate - Regenerative Farming to Save Our Food Supply

Books by David Montgomery:

- “Dirt: The Erosion of Civilizations”
- “Growing a Revolution”
- “Hidden Half of Nature” by Bikle & Montgomery; See also Bioneers website
- David Montgomery on YouTube

Soil Health Institute:

- https://soilhealthinstitute.org
- Soil Health Institute's Resource Library
- Adoption of Soil Health Systems 2017. Cover crop and no till production practices
- Movie: “Living Soil” by Soil Health Institute, view on YouTube
- Economics of soil health systems
- Assessing Soil Health: Soil Carbon Cycling and Storage

Soil Science Society of America

- https://www.soils.org/

Soils Revealed

- Soils Revealed. This is an open-access, interactive platform that uses cutting-edge technology to model how soil organic carbon has fluctuated over the last 11,000 years and to project soil’s future carbon-storing capacity. This is new tool that will help policymakers and nongovernmental organizations meet their regional and national climate goals by pinpointing key areas for soil restoration and for implementing land management practices that limit greenhouse gas emissions.

Nature Conservancy:

- Building a Farming Partnership for a Sustainable Future
NO-TILL Farmer (great resources for no till and cover crops)

- https://www.no-tillfarmer.com/
- https://www.no-tillfarmer.com/articles/10455

Work by ASU’s Peter Byck:

- Carbon Cowboys: profiling farmers in practice https://www.carboncowboys.org/
- One Hundred Thousand Beating Hearts by Peter Byck

NRDC (Natural Resources Defense Council):

- Website: https://www.nrdc.org/issues/climate-change

Rodale Institute:

- Website: https://rodaleinstitute.org
- Rodale Soil Carbon White Paper is an authoritative look at sequestering carbon via “regenerative” (soil health) agriculture.

The Ohio State University, Center for Carbon Management and Sequestration

- https://cmasc.osu.edu/
- https://senr.osu.edu/our-people/rattan-lal

Columbia University, Center on Global Energy Policy

- Food and Climate Change Info Guide
- How the Food System Can Contribute to Global Ambition on Climate Change
- https://www.earth.columbia.edu/

Yale Environment 360

- “Soil as Carbon Storehouse: New Weapon in the Climate Fight?” is a description of why we are looking to agriculture to be a strong partner. Transitioning to sustainable energy is only a start. We also have to draw the carbon back down into soil.
- Global Warmings Six Americas

Union of Concerned Scientists

- Climate Change and Agriculture
- Scientists & Experts Want Climate Action, An Open letter to the Whitehouse

Farm Foundation

- Farm Foundation® Forum: Emerging Carbon Markets in Agriculture - Issues and Opportunities
American Farmland Trust

- Soil health case studies: https://farmlandinfo.org/publications/soil-health-case-studies/
- Interview hosted by the American Farmland Trust with Tom Vilsack

Farm Bureau

- Farm Bureau Previewing 2019 Agricultural Emissions

Breakthrough Institute

- The Limits of Soil Carbon Sequestration

Foundation for Climate Restoration

- Foundation for Climate Restoration
- Foundation Videos of interest

USDA/NRCS Soil Health

- USDA/NRCS Soil Health
- USDA Principles to Improve Soil Health

Intergovernmental Panel On Climate Change

- Special Report on climate change, desertification, land degradation, sustainable land management, food security, and greenhouse gas fluxes in terrestrial ecosystems
- Agriculture, Forestry and Other Land Use (AFOLU)
- Intergovernmental Panel on Climate Change (IPCC) is the United Nations body for assessing the science related to climate change

American Chemical Society Publications Chemical & Engineering News

- How soil can help solve our climate problem
- Performance-Based Payments for Soil Carbon Sequestration Can Enable a Low-Carbon Bioeconomy
- Regenerating Degraded Soil

Soil Health Partnership

- https://www.soilhealthpartnership.org/

Soil Food Web

- https://www.soilfoodweb.com/
The Counter
- Regenerative Agriculture needs a Reckoning
- Regenerative agriculture could save soil, water, and the climate. Here’s how the U.S. government actively discourages it.

Mad Agriculture
- https://madagriculture.org/the-journal

Climate Farmers
- https://climatefarmers.org/

Soil Carbon Coalition
- https://soilcarboncoalition.org/

Food and Agriculture Climate Alliance (FACA)
- Policy recommendations: https://agclimatealliance.com/

Proposed federal legislation to support soil health, regenerative agriculture, and soil carbon capture:
- Growing Climate Solutions Act 2021
- Energy Innovation And Dividend Act 2021
- Optimize the sequestration of carbon, H.R.2508, establishes a Soil Health Transition Incentive Program that provides payments and technical assistance to producers who are transitioning their farms to soil health cropping systems; provides longer term contracts to mitigate risk; doubles funding for Conservation Innovation Trials.
Other Links:

- Farm Carbon Toolkit [https://www.farmcarbontoolkit.org.uk/](https://www.farmcarbontoolkit.org.uk/)
- 4p1000 Initiative
- Regeneration International
- Agriculture in the COP21 Agenda
- Agriculture, Forestry, and Land Use from Project Drawdown
- 8 Ways to Sequester Carbon to Avoid Climate Catastrophe
- How Soil Could Save The Planet: NPR’s Science Friday on soil carbon capture
- Regenerative Agriculture Podcast with John Kempf is exceptionally good. Highly recommended for anyone in AG. He has interviewed the best and brightest of those doing cutting edge microbiology, agronomy, entomology (bugs), cropping systems, and the like.
- Gabe Brown: Keys to Building a Healthy Soil
- A great resource to monitor drought conditions: [US Drought Monitor](https://www.drought.gov/)

Consider signing onto **BCL’s Agriculture’s Climate Declaration** to endorse a price on carbon, [here](https://www.bcl.org.uk/).