

Carbon Farming for Climate Resilience
Organic Growers School Spring Conference 2019

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Carbon Farming Resources

The Carbon Farming Solution by Eric Toensmeier is the most comprehensive resource to date on the potential for climate solutions in agriculture through the use of high mitigation farming practices. Along with detailed information on mitigation potential of a large range of practices, Toensmeier explores the potential for a diverse group of perennial plants suitable for agricultural production systems that provide protein, fats, carbohydrates, oils, biomass, hydrocarbon, industrial starches. This book is not a “how-to” but rather an encyclopedia detailing the practices and plants that have the greatest potential for climate change mitigation options in agriculture. <http://carbonfarmingsolution.com/>

Resilient Agriculture by Laura Lengnick explores climate change, resilience and the future of food through the adaptation stories of 27 award-winning sustainable farmers and ranchers located across the U.S. Lengnick presents current and expected changes in weather and the effects of these changes on crop and livestock growth and development, introduces resilience concepts useful to farm management, and explores how farmers and ranchers in the U.S. are using agroecology and adaptive management to reduce climate risk and capture new opportunities associated with our changing climate. <https://www.newsociety.com/Books/R/Resilient-Agriculture>

Cultivating Climate Resilience on Farms and Ranches by Laura Lengnick presents a toolbox of management practices that U.S. farmers and ranchers can use to reduce climate risk and enhance the productivity and profitability of their operations. This publication includes a detailed list of climate change adaptation resources. You can view or download this publication at no charge from <https://www.sare.org/Learning-Center/Bulletins/Cultivating-Climate-Resilience-on-Farms-and-Ranches>.

The Resilient Farm and Homestead by Ben Falk is a handbook for developing regenerative human habitat systems resilient to drought, flooding, heat, power outage, price spikes, pest pressure, and the multitude of challenges brought by climate change, peak oil, food system contamination and economic decline. <http://www.wholesystemsdesign.com/resilient-farm-homestead-book/>

Don't Believe the Carbon Market Hype by Tara Ritter presents a brief history of carbon markets, why they have failed in the past, and why they are not likely to support effective climate solutions in agriculture in the future. https://www.iatp.org/sites/default/files/2017-06/2017_06_28_CarbonMarkets_TR.pdf

New National Consortium Forms Ecosystem Services Market Program describes a new business-led effort to implement a market-based approach to promoting land stewardship to promote healthy soils, soil carbon sequestration and water conservation on the globe's working lands. <https://www.nature.org/en-us/explore/newsroom/new-national-consortium-forms-ecosystem-services-market-program/>

Climate-Friendly Gardening Resources

Top 10 Tips for the Climate-Ready Garden by Laura Lengnick is an infographic presenting ten practices that gardeners can use to mitigate and adapt to climate change. Laura teaches these tips in the *Gardening in a Changing Climate* course, an elective in the NC Arboretum's Eco-Gardening Certificate Program. You can download these tips free of charge at www.cultivatingresilience.com.

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<http://www.wholesystemsdesign.com/resilient-farm-homestead-book/>

The Resilient Gardener by Carol Deppe is both a conceptual and a hands-on organic gardening book that explores how gardening can help your family cultivate resilience to a full range of problems from personal hard times and special dietary needs to serious regional and global disasters and climate change.
<https://www.chelseagreen.com/product/the-resilient-gardener/>

Grow Biointensive, is a program of Ecology Action a non-profit dedicated to small-scale, sustainable gardening based on a foundation of healthy soils. There are many excellent resources available on their website, both free and for purchase through their garden supply company Bountiful Gardens. <http://www.growbiointensive.org/>.

The Climate Friendly Gardener explains the science linking soil, plants, and climate change and offers practical tips and resources to help you cultivate a more climate-friendly garden. http://www.ucsusa.org-/sites/default/files/legacy/assets/documents/food_and_agriculture/climate-friendly-gardener.pdf

Gardening in a Warming World is a set of teaching materials designed to help gardeners understand the challenge of the changing climate and how it relates to gardening skills and techniques. Including a Textbook, Facilitator's notebook and Powerpoint presentation.
<http://climatechange.cornell.edu/gardening/>

Shrink your Garden's Climate Footprint, in Verdant Views, Cornell Plantations magazine (see page 22) is adapted from David Wolfe's "Gardening Sustainably in a Changing Climate." <http://issuu.com/cornellplantations/docs/vv5.l.r>

Trees Help Fight Climate Change explores the many climate resilience benefits of trees to your home and community including providing cooling shade, slowing water and wind, and carbon sequestration. <https://www.arborday.org/trees/climatechange/>

Gardens at the Front Lines of Climate Change describes how the very yard sticks we use to decide what to grow where are shifting northward. <http://aroundthegarden.tumblr.com/post/9091380391/gardens-at-the-front-lines-of-climate-change-over>