



Overview

As a philosophy and approach to land management, regenerative agriculture asks us to think about how all aspects of agriculture are connected through a web instead of a linear supply chain. Regenerative agriculture entails farming and ranching in a manner that nurtures both the people and the planet, with specific methods varying among farmers and across landscapes. Regenerative agriculture is a holistic system that emphasizes working with nature rather than against it, drawing on principles from traditional farming practices, ecological science, and modern innovation. These holistic ideals aim to rejuvenate soil and ecosystem vitality, tackle inequity, and help to ensure land, water, and climate are safeguarded for posterity. By promoting healthy soils, diverse ecosystems, and efficient resource use, regenerative agriculture offers a promising approach to addressing the challenges of food security, climate change, and environmental degradation.

Key Aspects of Regenerative Agriculture

Regenerative agriculture stands at the forefront of a paradigm shift in modern farming practices, offering a transformative approach to land management that prioritizes ecological health, resilience, and sustainability. A variety of key aspects characterize regenerative agriculture, including:

- **Agroforestry:** Agroforestry is a land management system that integrates trees and shrubs into agricultural systems, providing additional benefits such as shade, wind protection, and habitat for wildlife. Agroforestry practices can improve soil health, diversify farm products, and enhance the ecosystem overall.
- **Biodiversity:** Unlike conventional monoculture farming, which often relies on a single crop, regenerative agriculture encourages diversity in plant species. This can include rotating crops, planting cover crops, and integrating trees and shrubs into agricultural landscapes. Biodiversity, short for biological diversity, supports ecosystem resilience, pest management, and nutrient cycling.
- **Carbon Sequestration:** Regenerative agriculture has the potential to sequester carbon dioxide from the atmosphere and store it in the soil. Effective carbon sequestration strategies are essential for mitigating climate change and reducing the impacts of global warming.
- **Cover Crops:** Cover crops are plants grown primarily to protect and improve soil health rather than directly for harvest. They can help prevent erosion, suppress weeds, and add organic matter to the soil. Common cover crops include legumes like clover and vetch and grasses like rye and oats.
- **Crop Rotation:** Rotating crops helps to break pest and disease cycles, improve soil fertility, and prevent soil erosion. Different crops have different nutrient needs, so rotating crops can help maintain soil fertility by preventing the depletion of specific nutrients over time.
- **Livestock Integration:** Some regenerative agriculture systems integrate livestock into cropping systems, mimicking natural ecosystems where animals graze on grasslands. Managed grazing can improve soil health, reduce the need for synthetic fertilizers, and increase carbon sequestration in the soil.

Center Forward Basics

Center Forward brings together members of Congress, not-for profits, academic experts, trade associations, corporations and unions to find common ground. Our mission: to give centrist allies the information they need to craft common sense solutions, and provide those allies the support they need to turn those ideas into results.

In order to meet our challenges we need to put aside the partisan bickering that has gridlocked Washington and come together to find common sense solutions.

For more information, please visit www.center-forward.org

- **Reduced Tillage:** Tillage, or the plowing of the soil, is minimized or eliminated in regenerative agriculture systems to prevent soil erosion and in turn preserve soil structure and reduce carbon loss. Reduced tillage practices also help to maintain soil moisture and minimize disturbance to soil organisms. Among the reduced tillage practices, no-till planting is among the most common. It is simply the practice of planting crops without tilling the soil. This technique decreases the soil erosion normal tillage causes, especially in certain soils.
- **Reduction in Pesticides & Chemical Fertilizers:** Regenerative farmers make efforts to reduce their reliance on inputs, such as herbicides, pesticides, and additional fertilizers. In prioritizing overall health, many growers naturally use fewer inputs, reducing the agricultural footprint and allowing for an increase in productivity.
- **Soil Health:** Regenerative agriculture strongly emphasizes building and maintaining healthy soils. Healthy soil is crucial for nutrient cycling, water retention, and providing a habitat for soil organisms that contribute to fertility and overall ecosystem health.

Promises & Potential Pitfalls

The care and creativity of regenerative agriculture yields benefits on and off the land. It aims to cultivate crops and fibers, diminish carbon emissions, preserve water resources, restore water bodies, produce healthier food, minimize reliance on inputs, provide employment opportunities within local communities, and safeguard the health of the land. Benefits from regenerative agriculture claim to exceed past ecological and community levels. They include mental and physical health as well as personal and financial benefits. The ecological benefits include improvements in the health and fertility of the soil, reduced soil erosion, and reductions in water pollution. By bringing together a community of growers and farmers, the ability to exchange information and learn from one another allows communities to benefit. Relationships are built between consumers, producers, and their food. Individually, the health of farmers, farmworkers, and downstream communities all benefit from reduced fossil fuel exposure. Along with the reduction of exposure, the cost savings from reduced use allows for the potential of greater financial security among growers.

No evidence exists that an intentional shift to reduce our food system's carbon footprint is necessary to limit global warming. However, no evidence shows that regenerative agriculture can reverse climate change altogether. Some claim that the regenerative movement gives consumers the false impression that they can continue eating the same as before rather than shift to a plant-rich diet, which is recommended by a consensus of climate scientists.

Regenerative agriculture can be profitable, and indeed it often is. According to a 2023 report, farmers could see their profits boosted by up to 120 percent in the long run. However, these figures are highly speculative given the many variables at play in agriculture. If corporate agriculture adopts sustainable farming practices without introducing a comprehensive plan to overhaul the farming system and reduce meat consumption, factory farming's contribution to the climate crisis will continue at the same dangerous pace.

Policy Priorities

The Natural Resources Defense Council (NRDC) surveyed of farmers and ranchers to find out what the primary areas of reform would be to help facilitate the expansion of regenerative agriculture. The recommendations focused mainly on how to reform, support, and expand federal policies, but weren't restricted to the Farm Bill or exclusive to USDA's jurisdiction. While government policy is the main driver for expanding regenerative agriculture, it is not the only driver. Public and private partnerships and the private sector also have roles in this level of change.

Policy practices play a crucial role in shaping the adoption and success of regenerative agriculture. As societies grapple with pressing environmental and food security challenges, policymakers are increasingly exploring ways to incentivize and support regenerative practices. Effective policy frameworks can facilitate the transition towards more regenerative and resilient agrarian systems from providing financial incentives and technical assistance to establishing regulations and standards. However, crafting policies that balance the needs of diverse stakeholders while promoting the long-term

sustainability of agriculture, remains a complex and evolving task. The future of our agricultural system is bound to the well-being of the communities that make its function possible, and policy should reflect that reality.

Links to Other Resources

- American Farm Bureau Federation - [Sustainability | American Farm Bureau Federation](#)
- Bayer - [Regenerative Agriculture at Bayer](#)
- Environmental Defense Fund - [Climate smart agriculture | Environmental Defense Fund](#)
- McDonalds - [Responsible Sourcing](#)
- Midwest Row Crop Collaborative - [2022 Impact Report – Midwest Row Crop Collaborative](#)
- Midwest Row Crop Collaborative - [Policy – Midwest Row Crop Collaborative](#)
- National Association of Conservation Districts - [National Association of Conservation Districts](#)
- Natural Resources Defense Council - [Regenerative Agriculture 101](#)
- Regenerative Agriculture Report NRDC - [NRDC: Regenerative Agriculture - Farm Policy for the 21st Century \(PDF\)](#)
- Sentiment Media - [The Promises and Pitfalls of Regenerative Agriculture, Explained](#)
- The Nature Conservancy - [Regenerative Grazing Lands | The Nature Conservancy](#)