



Soil Carbon Sequestration Update

February 2020

Prizes and Awards

This Food System Prize allows you to view the hundreds of prize applications - gleaned from some amazing ideas from NGOs and farmers from around the world.

<https://challenges.openideo.com/challenge/food-system-vision-prize/evaluation-1>

New Initiatives and Developments

Several cities have launched the Urban Drawdown Initiative, a program to promote healthy soils, composting, and practices and policies that help cities promote soil carbon sequestration and related benefits.

<https://urbandrawdown.solutions/>

Several start up companies are paying farmers to sequester carbon

<https://www.yaleclimateconnections.org/2020/01/startups-aim-to-pay-farmers-to-bury-carbon-pollution-in-soil/>

UK moves bill to reward farmers for protecting soil, air, and water

<https://www.foodnavigator.com/Article/2020/01/17/Agriculture-Bill-UK-to-reward-farmers-for-clean-air-soils-and-water>

A group of major corporations and governments committed to planting one trillion trees. as one step in helping to cool the planet.

<https://www.1t.org/>

A global effort to confront the harmful effects of industrial, fossil-fuel based agriculture.

<https://feedbackglobal.org/>

Conferences

International conference on regenerative agriculture and agroecology

<https://waset.org/regenerative-agriculture-and-agroecological-restoration-conference-in-october-2020-in-london>

Nature Based Solutions Conference, July, 2020 - Oxford, UK

<https://www.naturebasedsolutionsoxford.org/>

Living Soils North American Symposium with 4 p 1000 - Montreal

<https://livingsoilssymposium.ca/fr/reunion-regionale-4-pour-1000/>

International conference on agroecology and organic farming in Sweden

<https://waset.org/agroecology-and-organic-farming-conference-in-july-2020-in-stockholm>

Midwest gathering on soil health

<https://www.sfa-mn.org/midwest-soil-health-summit/>

Farming While Black: Wisdom for Farming and Food Justice

<https://regenerationinternational.org/event/farming-while-black-african-diasporic-wisdom-for-farming-and-food-justice/>

Agroecological Restoration and Sustainable Agriculture - in Amsterdam

<https://waset.org/agroecological-restoration-and-sustainable-agriculture-conference-in-may-2020-in-amsterdam>

Farmer to Farmer Tools and Training/Learning Opportunities

Cuba Agroecology Tour

<https://regenerationinternational.org/event/cuba-agroecology-tour/>

Ecosystem Restoration Camp in Mexico

<https://regenerationinternational.org/event/ecosystem-restoration-camp-at-rancho-via-organica/>

Climate Change and Farming - Ohio

<http://policy.oeffa.org/climatechange>

Benin Boot Camp on Agroecology

<https://www.afrik21.africa/en/benin-training-session-in-agroecology-scheduled-for-february-2020/>

Regenerative Farming for Cash Crops - Nebraska

<https://soilhealthacademy.grazecart.com/sha-gresham-wi-copy>

Regenerative Farming and Ranching - Alberta, Canada

<https://soilhealthacademy.org/upcoming-schools>

Regional grazing conference - Maryland

https://www.eventbrite.com/e/2020-maryland-grazers-network-regional-grazing-conference-tickets-85508370839?aff=odeimcmailchimp&mc_cid=3e5859adbd&mc_eid=1f2c10f5e2

Land PKS App - a tool for producers

<https://landpotential.org/>

Climate Change - What does it mean for the horse owner?

<https://www.planitrural.com.au/index.php/80-blog-articles/221-climate-change-what-does-it-mean-for-the-horse-owner/>

https://www.marincounty.org/-/media/files/departments/pw/mcstoppp/residents/a_horse_keepers_guide_to_compost.pdf

Research and Science

Improving our understanding of coastal carbon sequestration

<https://eos.org/research-spotlights/improving-estimates-of-coastal-carbon-sequestration>

How to measure, report and verify carbon in soil

<https://www.ncbi.nlm.nih.gov/pubmed/31469216>

Microbes and biological soil crusts help sequester carbon - new findings

<https://www.sciencedirect.com/science/article/pii/S0140196319300941>

Plants and Fungi - a critical relationships for soil carbon sequestration

<https://www.sciencedaily.com/releases/2019/11/191107084034.htm>

French assessment of potential for soil carbon

<https://www.inrae.fr/actualites/stocker-4-1000-carbone-sols-potentiel-france>

Shifting from Industrial to agroecological systems in China

<https://www.resilience.org/stories/2020-01-07/shifting-from-industrial-agriculture-to-diversified-agroecological-systems-in-china/>

An updated assessment of the potential of soil carbon sequestration

<https://www.frontiersin.org/articles/10.3389/fclim.2019.00008/full>

A Database for Global Soil Health Assessment

<https://www.nature.com/articles/s41597-020-0356-3>

Complete decarbonization of the agriculture sector by 2060 - Global

<https://www.darden.virginia.edu/sites/default/files/inline-files/AgSector-report-FINAL.pdf>

Enhancing global research coordination on soil carbon sequestration in agriculture

<https://cordis.europa.eu/project/id/774378>

An assessment of China's emissions from agriculture

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC6747386/>

Turf grass - it can sequester carbon and some grasses are preferable to others.

<https://dl.sciencesocieties.org/publications/sssaj/abstracts/74/2/366>

For high school chemistry classes - soil carbon materials

<https://edu.rsc.org/feature/grounded-keeping-the-carbon-beneath-our-feet/4011133.article>

Fungal diversity and the future of forests

<https://news.stanford.edu/2020/01/22/fungal-diversity-future-forests/>

Recent Media Coverage

Germany puts 15m euros into agroecology in West Africa

<https://www.afrik21.africa/en/west-africa-germany-will-finance-agro-ecology-to-the-tune-of-e16-million/>

Incentivize regenerative agriculture

<https://bangordailynews.com/2019/12/31/opinion/contributors/a-2020-new-years-resolution-on-commit-to-carbon-drawdown-in-farmland-soils-incentivize-regenerative-farming/>

Pay farmers to sequester carbon emissions - Wall Street Journal

<https://www.wsj.com/articles/how-to-get-rid-of-carbon-emissions-pay-farmers-to-bury-the-em-11568211869>

Farmers and Funders get behind a push to reinvent agriculture

<https://www.insidephilanthropy.com/home/2020/1/29/a-push-to-reinvent-farming-in-an-era-of-climate-change-and-rural-despair-draws-farmers-and-funders>

Slow Food involves young people in agroecology in East Africa

<https://www.afrik21.africa/en/east-africa-slow-food-sets-project-to-get-young-people-involved-in-agro-ecology/>

Denmark introduces plan to reduce nitrogen emissions in agriculture

<https://www.thelocal.dk/20191126/denmark-presents-plan-to-reduce-nitrogen-emissions-in-farming>

Fertilizer companies in India worried re zero budget farming's impact on their business

<https://economictimes.indiatimes.com/news/economy/agriculture/zero-budget-farming-may-not-be-a-good-move-for-fertiliser-companies-experts/articleshow/73836007.cms>

South Africa's wonder plant can sequester a great deal of carbon

<https://www.bbc.com/future/article/20200203-the-south-african-plant-fighting-climate-change>

Carbon Markets get real on carbon sequestration

<https://www.greenbiz.com/article/trend-carbon-markets-get-real-removal>

Twenty Mega Trends in Agriculture in the Next Decade - including carbon farming

<https://www.agprofessional.com/article/20-mega-trends-2020-and-beyond>

Gardeners can play a role in sequestering carbon

<https://mailtribune.com/lifestyle/home-and-garden/21st-century-victory-gardens-can-be-used-to-feed-the-soil-with-carbon>

Global Action on Soil Carbon Sequestration and Healthy Soils

Recarbonization of Global Soils - comprehensive report by FAO

<http://www.fao.org/3/ca6522en/CA6522EN.pdf>

Could 2020 be the year the carbon drawdown goes global in a big way?
<https://www.wri.org/blog/2020/01/2020-could-be-year-carbon-removal-takes>

University of Oxford Nature-Based Solutions Initiative
<https://www.naturebasedsolutionsinitiative.org/>

Davos - Salesforce - 1 trillion trees
<https://www.1t.org/>

Queensland, Australia promotes carbon farming
<https://www.qld.gov.au/environment/climate/climate-change/land-restoration-fund/carbon-farming>

Ecosystem Restoration Camps on the Rise
<https://theecologist.org/2020/jan/29/welcome-ecosystem-restoration-camp>

United States - Regenerative Agriculture and the 2020 Elections

Democratic Presidential Candidates Support Regenerative Agriculture
<https://www.motherjones.com/food/2019/11/elizabeth-warren-democratic-primary-bernie-sanders-joe-biden-kamala-harris-cory-booker-pete-buttigieg-supply-management-green-new-deal-farmers-carbon-farming/>

US voters and farmers express support for regenerative agriculture
<https://ucs-documents.s3.amazonaws.com/food-environment/raba-ucs-5-state-toplines-nov2019.pdf>

Elizabeth Warren would pay farmers to tackle the climate challenge
<https://thehill.com/policy/energy-environment/456547-warren-to-pay-farmers-to-fight-climate-change-under-new-plan>

Senator Bernie Sanders promotes soil carbon drawdown in a video
<https://www.sanders.senate.gov/newsroom/video-audio/farmers-can-help-address-climate-change>

Conservative farm groups and supply chain leaders gather to discuss climate change
<https://www.politico.com/news/2019/12/09/farmers-climate-change-074024>

Groups urge political candidates to reject contributions from Big Agriculture groups
<https://foeaction.org/news/coalition-launches-no-big-ag-money-pledge-targeting-presidential-candidates/>

State healthy soils policies continue to be introduced in the USA
<https://mail.google.com/mail/u/1/#inbox/FMfcgxwGCtNXwWQkThLWDgCQJDmkMMhS?projector=1&messagePartId=0.1>

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To join our listserv on Soil Carbon Sequestration [click here](#).

To submit suggested resources for the next update, please contact [Austin Badger](#).