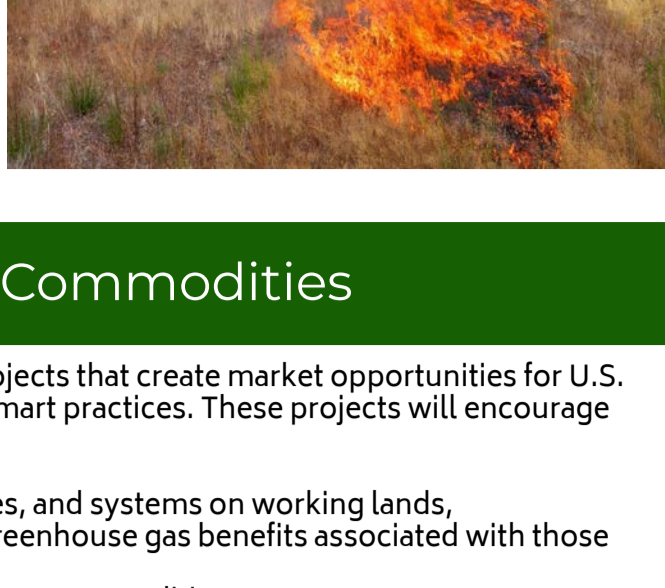




Feature Article

Prescribed Fire in the Northwest

This Northwest Climate Hub article explores the pros and cons of prescribed fire, or planned low-intensity fire conducted by professionals. Prescribed fire can lower the risk of catastrophic wildfires by reducing fuels, while providing forage for wildlife, and protecting communities from large wildfires. Prescribed fire seeks to mimic the small, regular-interval fires historically experienced in many Northwest ecosystems, and can even help to minimize some invasive species, insect outbreaks, and plant diseases.



Partnerships for Climate-Smart Commodities

The USDA has announced \$1 billion in funding for pilot projects that create market opportunities for U.S. agricultural and forest products produced using climate-smart practices. These projects will encourage producers and landowners to:

- 1. Implement climate-smart production practices, activities, and systems on working lands,
2. Measure/quantify, monitor, and verify the carbon and greenhouse gas benefits associated with those practices, and
3. Develop markets and promote the resulting climate-smart commodities.

Proposals must provide plans on how projects will focus on the reduction and sequestration of carbon from commodities produced on farms, ranches, or in forests.

There are two funding pools:
• 8 April, 2022, for proposals from \$5 million to \$100 million. These large-scale pilot projects will emphasize the greenhouse gas benefits of climate-smart commodity production and should directly benefit a representative cross section of producers.
• 27 May, 2022, for proposals from \$250,000 to \$4,999,999. These projects should be innovative and place an emphasis on enrollment of small and/or underserved producers, and/or focus on minority-serving institutions that develop ways to monitor, verify and quantify carbon and greenhouse gas benefits.

A list of frequently asked questions

Factsheet about the program

Drought Update

After the driest January since 2014, high-elevation snowpack in Idaho, Oregon and Washington is beginning to decline from the above-normal values at the start of the year. Recent dry weather increased water-year-to-date precipitation shortfalls and lowered streamflow values. Precipitation along the border of Idaho and Montana improved conditions enough for a small reduction in abnormal dryness (D0-yellow). Western Oregon saw expansions of moderate (D1-tan), severe (D2-orange), and extreme (D3-red) drought. Much of Oregon, Idaho and eastern Washington are experiencing drought conditions. Alaska remains free of drought and abnormal dryness.

Logos for National Integrated Drought Information System (NIDIS), U.S. Drought Portal, CoCoRiHs Community Rain Hail Snow Network, Snow Drought Conditions, and Pacific Northwest Drought Impacts Survey.

U.S. Drought Monitor USDA Northwest Climate Hub

February 15, 2022 (Released Thursday, Feb. 17, 2022) Valid 7 a.m. EST

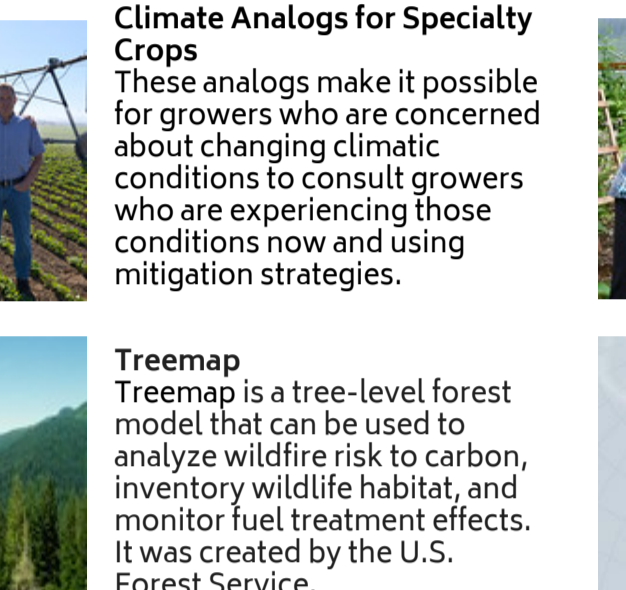


Table showing Drought Conditions (Percent Area) for Current, Last Week, 3 Months Ago, Start of Calendar Year, Start of Water Year, and One Year Ago. Legend includes D0 None, D1 Abnormally Dry, D2 Severe Drought, D3 Extreme Drought, D4 Exceptional Drought.

The Drought Monitor focuses on broad-scale conditions. Local conditions may vary. For more information on the Drought Monitor, go to https://droughtmonitor.unl.edu/about.aspx

Logos for USDA, NIDIS, and droughtmonitor.unl.edu.

Featured Information

A grid of 10 featured information articles with icons and titles: Sustainability of Agricultural Biomass, Climate Analogs for Specialty Crops, Treemap, Imagining Climate Resilience in the Pacific Northwest, Invasive Species, Fire and Ice, Conversion of Forest to Non-Forest Vegetation Following Wildfire, Cover Crops and Climate Change Mitigation, USDA Inaugural Federal Advisory Committee on Urban Agriculture, Updated NOAA State Climate Summaries, Bark Beetle in Western Forests, Without Warning! Wildfire, Approaches to Increasing Prescribed Fire in Oregon, and Alaskan Wildfire & Climate Change.

Workshops & Conferences

- SoilCon, 22-23 February, 8 am-12 pm PST. This virtual event will discuss all aspects of soil health relevant to the agricultural systems of Washington State.
Washington Forest Owners' Winter School, 26 February, 9 am-3 pm PST. The Winter School will help landowners address challenges on their property, restore healthy forest conditions, and achieve forest-related goals.
Forest Health in Oregon: State of the State Conference, 1-2 March, 8 am-12 pm PST. This conference will summarize forest health issues in Oregon and the Pacific Northwest.
Drought Prediction: A Focus on Streamflow - End User Listening Session, 3 March, 10 am-11 am PST. This listening session, hosted by the U.S. Geological Survey and NOAA's National Integrated Drought Information System, will include a short introduction to streamflow drought prediction products for the United States.
Accelerating Solutions for a Resilient Coast Conference, 22-23 March. Coastal Quest is hosting this national event to help participants build understanding of how regions, states, and tribes are bringing together diverse stakeholders to accelerate solutions that create and leverage results for the coast.
Biochar Research and Commercialization Conference, 29-30 February, 9 am-1:30 pm PST. Biochar provides a unique opportunity to store more carbon in soil.
USGS and NOAA National Listening Session: Groundwater drought prediction, 5 May, 10 am-12:30 pm PST. With climate change, agriculture is expected to rely more heavily on groundwater in times of drought.

Webinars

- Invasion, Fire, and the Future of Northwest Wildlands, 22 February, 1-2 pm PST. The 2014-15 wildfires in the Blue Mountains spread in an unusual fashion owing in part to Venenata dubia.
Soil Moisture 101, 22 February, 11 am-12 pm PST. The first national soil moisture webinar from the National Integrated Drought Information System.
Release and Recruit: Recovering the Resiliency of Native Streamside (Riparian) Forests, 23 Feb, 6 pm-7:30 pm PST. The Rogue River Watershed Council has developed a streamside rehabilitation strategy.
Pacific Northwest DEWA Drought & Climate Outlook, 28 February, 11am-12pm PT.
SCIENCEx Water Webinars, 21-25 March, 11 am-12 pm PST.
The Future of Forest Products in a Changing Climate: Bioenergy from Forests Tuesdays, 8:30-9:10 am until April 19.
Climate Change Effects on U.S. Agriculture and Forests: This recorded webinar explores climate change impacts on U.S. agriculture and forests, and the increased frequency and magnitude of extreme weather events and associated disturbances.

The Starker Lecture Series "Women of Forestry: Inspiring Leadership"

A lecture series that focuses on women who have taken crucial roles to create change in forestry and forest products as well as in their communities. Lectures start on 26 January and occur monthly through April, culminating in an in-person capstone workshop in May.

- Pyro-cultural Forestry: Connecting People and Nature Through Fire, 9 March, 3:30-5:30 pm PST.
The Road Less Traveled: How Women in Forestry Can Save the World, 20 April, 3:30-5:30 pm PST.
Capstone Workshop, 10 May, 8 am-5 pm at Oregon State University.

Funding Opportunities

- February: Agricultural Land Easements, Federally Recognized Tribes Extension Program (FRTPE), Inclusive Energy Innovation Prize.
March: Agricultural Risk Coverage and Price Loss Coverage (ARC/PLC), Earth Science Applications in Equity & Environmental Justice, Renewable Resources Extension Act-National Focus Fund Projects (RREA-NFF), Rural Energy for America Program Renewable Energy Systems and Energy Efficiency Improvement Guaranteed Loans and Grants.

- April: USDA-National Institute of Food and Agriculture (NIFA) Small Business Innovation Research Program (SBIR), Regional Conservation Partnership Program (RCPP), Energy Transitions Initiative Partnership Project (ETIPP), Rural Innovation Stronger Economy (RISE), Rural Energy Pilot Program (REPP), Drivers and Environmental Impacts of Energy Transitions in Underserved Communities.

Ongoing

- Funding for Watershed Improvement: New funding from the Infrastructure Investment & Jobs Act is available through the USDA Natural Resources Conservation Service.
Funding for Water Systems Due to an Emergency Event.
Conservation Program Opportunities to Support Climate Smart Agriculture.
Conservation Reserve Program.

Opportunities

- Postdoctoral Fellow in Climate Agriculture Metric and Model Downscaling.
Northwest Climate Adaptation Science Center 2022-23 Research Fellowship Program.
Environmental Justice Video Challenge for Students.

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