

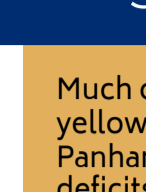
## Featured Article



## Mental Health and Climate Change in the Northwest

Sixty-six percent of people in the Northwest are worried about climate change. As climate-related events increase, individuals and communities may experience related mental health challenges. However, because climate change does not impact all people equally, the mental health impacts of climate change are also unequal. As such, maintaining and improving mental health in a changing climate will require varied and adaptable approaches. This Hub article explores the unequal impacts of climate change on mental health, while providing examples of individual and community adaptation possibilities.

## Opportunity



**SARE Fellows Program.** This program will help participants enhance their understanding of sustainable agriculture through broad-based training and interpersonal interactions at unique agriculture operations nationwide. Participating Fellows build professional relationships, improve their teaching and technology transfer skills, and are better prepared to develop programs that meet the needs of their local agricultural communities. **Applications due 8 May.**

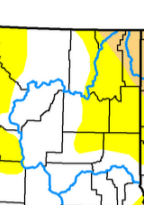
## Drought Update

Much of southern Idaho improved from moderate drought (D1 – tan) to abnormally dry conditions (D0 – yellow) or no drought (white) after recent precipitation. Yet, abnormally dry conditions expanded in the Panhandle. Recent precipitation added to a large snowpack and lessened long-term precipitation deficits, reducing moderate drought (D1-tan) and abnormal dryness (D0-yellow) in western Oregon. Meanwhile, portions of eastern Oregon saw improvements, moving from moderate drought to abnormally dry conditions, and from exceptional drought (D4-dark red) to moderate drought (D3-red). In Washington, abnormally dry conditions lessened in the northeast.

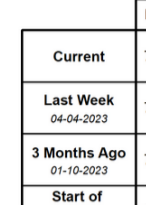
Alaska remains free of drought.



National Integrated Drought Information System



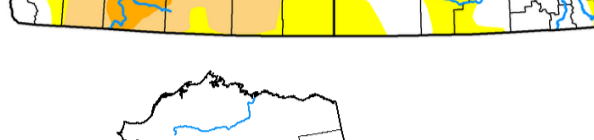
CoCoRaHS Community Rain Hail Snow Network



Condition Monitoring Observer Reports

## U.S. Drought Monitor USDA Northwest Climate Hub

**April 11, 2023**  
(Released Thursday, Apr. 13, 2023)  
Valid 8 a.m. EDT



Drought Conditions (Percent Area)	None	D0-D4	D1-D4	D2-D4	D3-D4	D4
Current	78.90	21.10	9.21	2.80	0.72	0.00
Last Week (04-04-2023)	77.40	22.60	10.09	2.86	0.72	0.00
3 Months Ago (01-10-2023)	75.03	24.07	14.17	7.56	3.02	0.16
Start of Calendar Year (01-01-2023)	75.01	24.99	15.00	7.57	3.06	0.16
Start of Water Year (09-27-2022)	70.29	29.71	18.36	7.80	3.90	0.16
One Year Ago (04-20-2022)	75.39	24.61	22.81	18.07	7.84	1.75

**Intensity:**

- None
- D0 Abnormally Dry
- D1 Moderate Drought
- 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>

Author:  
David Sinneral  
Western Regional Climate Center



[droughtmonitor.unl.edu](https://droughtmonitor.unl.edu)

## Information



**Management Actions for Northwest Grazing Lands**  
Rotational grazing and virtual fencing are just a couple in a suite of management actions that can improve the resilience of Northwest grazing lands to climate change. Learn more on this Hub webpage.



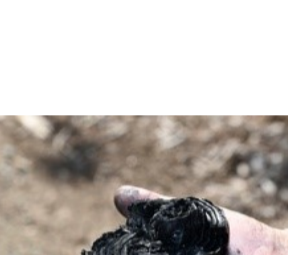
**Northwest Reforestation: Planting to Suit Current and Future Climates**  
This Hub webpage includes guidelines and considerations for replanting Northwest forests so that trees are suited to current and future climates. See workshop information on this topic below.



**Soil Health Management to Reduce Climate and Weather Risks in the Northwest**  
This Hub article explores a suite of agricultural management options that land managers can adopt to reduce risks of climate- and weather-related impacts. This webpage includes a fact sheet.



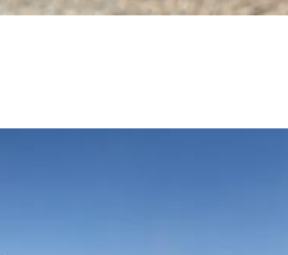
**Fire in the Western U.S. StoryMap**  
The Joint Fire Science Program Exchange Network has developed a StoryMap that illustrates some of the diverse inputs and outcomes of wildfires in the western U.S., looking at five large fires through the lens of climate change and management decisions.



**Rocky Mountain Research Station: Biochar**  
A U.S. Forest Service webpage that includes featured work, research highlights, and publications on biochar – a climate-friendly solution to forest wood residues (slash), or waste biomass.



**Can Large-scale Solar Developments and Protected Lands Coexist?**  
This AgClimate.net article investigates whether large-scale renewable development projects on the Columbia Plateau can coexist with productive agricultural and grazing lands.



**Profitability Tool for Alternative Rotations in Dryland Systems**  
Warmer, drier conditions will increase farmer reliance on fallow or alternative rotation systems in the Northwest. This AgClimate.net article introduces a new profitability tool that can help farmers understand the economic impact of alternative rotations.

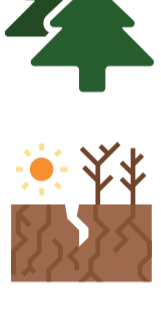


**Intergovernmental Panel on Climate Change (IPCC) Sixth Assessment Report Synthesis Report**  
Using the best available climate change impact and information about impacts, adaptation and vulnerability to climate change, and climate change mitigation, this IPCC synthesis provides a comprehensive scientific assessment of climate change.

## Workshops and Conferences



**Cross Boundary Landscape Restoration Workshop: Adapting to a Climate-Altered West, 2-4 May, Fort Collins, CO.** This workshop unites land and fire managers, researchers, and stakeholders to develop strategies that apply evidence-based collaborative management of forest landscapes in the Intermountain West. Topics and sessions include: crossing boundaries to realize cumulative impacts for effective landscape outcomes; understanding compounding disturbances; climate adaptation responses and needs; and incorporation of rapid adaptive management in changing ecological and social climates.



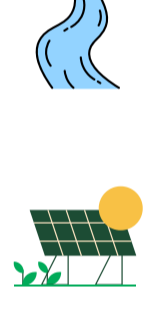
**2nd National Flash Drought Workshop, 2-4 May, Boulder, CO.** This workshop will bring the flash-drought research community and practitioners together to promote coordination, discuss the state of the science, resources, and tools related to flash drought, and identify outstanding research and information needs.



**Trees on the Edge: Understanding and Managing Douglas-Fir Decline and Mortality in Southwest Oregon, 4 May, Central Point, OR and Online.** This Oregon State University workshop will provide an update on causes, trends, and future projections of Douglas-fir decline and mortality in Southwest Oregon. Practitioners will learn about tools for assessing Douglas-fir mortality risk at the individual, tree, stand, and landscape scales. Presenters will describe strategies for managing Douglas-fir decline before, during, and after mortality.



**Northwest Reforestation: Choosing Plant Materials Suited to Current and Future Climates, 23 May, Olympia, WA.** This Northwest Climate Hub workshop aims to promote shared learning around selection of plant materials for climate-informed reforestation. It will bring together technology transfer specialists and practitioners from across Idaho, Oregon, and Washington to discuss the lessons learned from established assisted migration plantings. The primary focus will be on assisted population migration (movement of seed sources within a species range), but assisted range expansion and species migration (movement of seed sources just outside and well beyond the current species range) will also be discussed. Land managers from federal, state, and tribal agencies are encouraged to attend.

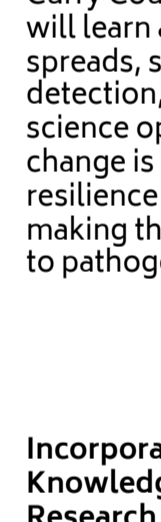


**Interagency Conference on Research in the Watersheds, 5-8 June, Corvallis, OR.** The Interagency Conference on Research in the Watersheds brings together watershed scientists, stakeholders, and managers to share scientific advances and management strategies to sustain the country's water resources. The goals are to better understand the factors driving change and associated impacts, and to incorporate societal needs and scientific uncertainties in the sustainable management of water resources.

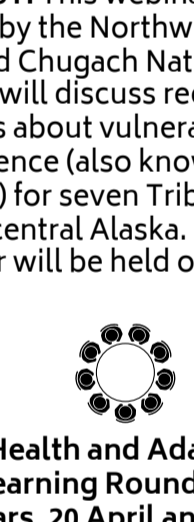


**2023 Northwest Tribal Clean Energy Summit, 13-15 June, Tulalip Resort and Casino, Marysville, WA.** The Summit will engage Tribal leaders, citizens, staff, youth, and collaborators in conversation about navigating the cultural, economic, and social challenges of implementing clean-energy projects. This summit aims to ensure that Tribes have the information, support, capacity, and resources necessary to plan for and implement Tribal energy projects. Tribal leaders, staff, citizens, and tribal collaborators are invited to attend.

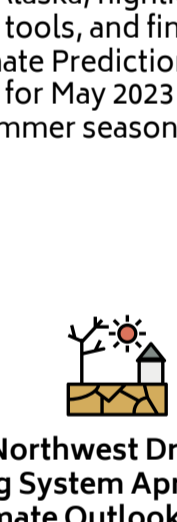
## Webinars



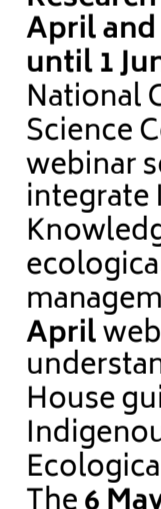
**What's Happening with Sudden Oak Death, Part II, 18 April, 4 pm PST.** The last webinar in this two-part series will provide updates on the sudden oak death (SOD) in Curry County, OR. Participants will learn about how SOD spreads, symptoms, treatments, detection, research, and citizen-science opportunities. Climate change is likely to decrease the resilience of forests and trees, making them more susceptible to pathogens like SOD.



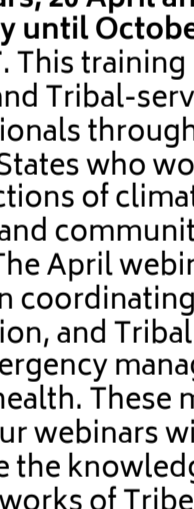
**Vulnerability of Alaska Natives in Prince William Sound and Adjoining Kenai Peninsula to Selected Climate and Non-climate Stressors, 19 April, 1:30 PM AKST.** This webinar, co-hosted by the Northwest Climate Hub and Chugach National Forest, will discuss recent findings about vulnerabilities of subsistence (also known as wild-harvest) for seven Tribes in south-central Alaska. The webinar will be held on Microsoft Teams.



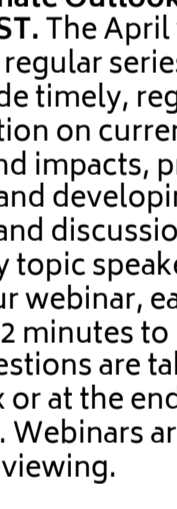
**April 2023 National Weather Service Alaska Climate Outlook Briefing, 20 April, 12 pm AKST.** This webinar will review recent and current climate conditions around Alaska, highlight some forecast tools, and finish up with the Climate Prediction Center's forecast for May 2023 and the early summer season.



**Incorporating Indigenous Knowledge into Federal Research and Management, 20 April and every other Thursday until 1 June, 12 pm PST.** The National Climate Adaptation Science Center is hosting a webinar series on how to integrate Indigenous Knowledge into federal ecological research and resource management programs. The 20 April webinar will focus on understanding the new White House guidance on integrating Indigenous Traditional Ecological Knowledge (ITEK). The 6 May webinar will provide a policy deep dive on understanding the laws, policies, and guidelines surrounding Tribal engagement and ITEK.



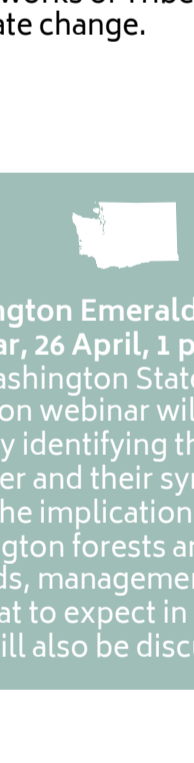
**Tribal Health and Adaptation Peer-Learning Roundtable Webinars, 20 April and every 3rd Tuesday until October 2023, 10 am PST.** This training is open to Tribes and Tribal-serving professionals throughout the United States who work at the intersections of climate change, health, and community well-being. The April webinar will focus on coordinating climate adaptation, and Tribal disaster and emergency management and public health. These monthly two-hour webinars will further advance the knowledge, skills, and networks of Tribes adapting to climate change.



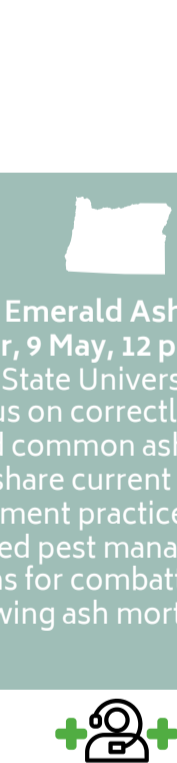
**Pacific Northwest Drought Early Warning System April Drought and Climate Outlook, 24 April, 10 am PST.** The April webinar is part of a regular series designed to provide timely, regional information on current drought status and impacts, previews of current and developing climatic events, and discussions from two specialty topic speakers. In this one-hour webinar, each speaker has 10-12 minutes to present, and then questions are taken in the chat box or at the end of the webinar. Webinars are recorded for later viewing.



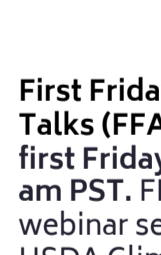
**Two Webinars on the Emerald Ash Borer (EAB)**  
The establishment of emerald ash borer (EAB) could severely impact habitats dominated by ash in Oregon and Washington and reduce urban forest cover.



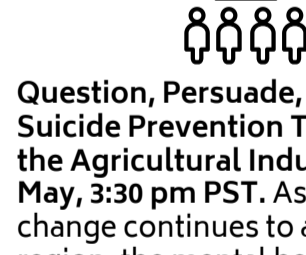
**Washington Emerald Ash Borer Webinar, 26 April, 1 pm PST.** This Washington State University extension webinar will focus on properly identifying the emerald ash borer and their symptoms on trees. The implications for Washington forests and wetlands, management options, and what to expect in the coming years will also be discussed.



**Oregon Emerald Ash Borer Webinar, 9 May, 12 pm PST.** This Oregon State University webinar will focus on correctly identifying EAB and common ash species, as well as share current best management practices and integrated pest management solutions for combating EAB and slowing ash mortality.

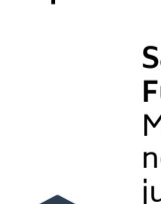


**First Friday All Climate Change Talks (FFACCTs), 5 May and the first Friday of every month, 11 am PST.** FFACCTs is a monthly webinar series organized by the USDA Climate Hubs and Forest Service Research and Development that features presentations from USDA scientists and practitioners. Webinars explore connections between climate, agriculture, nature, and people, and discuss their struggles, hazards, solutions and achievements. If you would like to subscribe to the FFACCTs list (or resubscribe, as fs.fed.us emails no longer forward), send an email to [listserv@newsbox.usda.gov](mailto:listserv@newsbox.usda.gov) with a blank subject and "Subscribe FFACCTs" (no quotes) in the body.

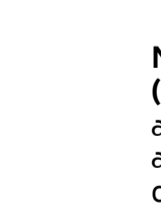


**Question, Persuade, Refer (QPR) Suicide Prevention Training for the Agricultural Industry, 10 May, 3:30 pm PST.** As climate change continues to affect the region, the mental health impacts of climate change on agricultural workers could increase. This Oregon State University training uses QPR, an evidence-based suicide prevention program, to empower participants to make a positive difference in the lives of others in the agricultural industry.

## Funding



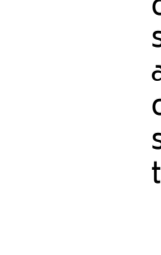
**April**  
**Safeguarding Tomorrow Revolving Loan Fund Program.** The Federal Emergency Management Agency (FEMA) is launching a new revolving loan fund to allow local jurisdictions to reduce vulnerability to hazards, foster greater community resilience, and reduce suffering after disasters. The program provides funding to states and federally recognized Tribes that received a major disaster declaration during the five-year period ending on 1 January 2021. **Applications due 28 April.**



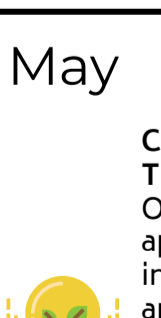
**June**  
**Micro-Grants for Food Security Impact (MGFSI).** MGFSI assists agricultural agencies or departments in eligible states and territories to increase the quantity and quality of locally grown food in food insecure communities through small-scale gardening, herding, and livestock operations. These grants are intended for areas of the United States that have significant levels of food insecurity and import a significant quantity of foods. The agricultural agencies or departments competitively distribute the funds through sub-awards to eligible entities. Eligible applicants are agricultural agencies, commissions, or departments in **Alaska** and several other food insecure states and territories. **Applications due 6 June.**



**May**  
**Clean Energy Technology Deployment on Tribal Lands.** The Department of Energy Office of Indian Energy is soliciting applications from Indian Tribes, which include Alaska Native Regional Corporations and Village Corporations, Intertribal Organizations, and Tribal Energy Development Organizations, to help deploy clean energy technology on Tribal lands. Approximately \$50 million will be available for 10 to 25 awards. **Applications due 16 May.**



**Climate Pollution Reduction Grants.** This program will provide grants to states, local governments, Tribes, and territories to develop and implement plans for reducing greenhouse gas emissions and air pollution. These grants support the development and implementation of strong, local greenhouse gas reduction strategies. This two-staged grant program provides funding of \$250 million for noncompetitive planning grants, and \$4.6 billion for competitive implementation grants. **Applications due 15 June.**



**Planning Proposals to Catalyze Innovative and Inclusive Wildland Fire Science through Diverse Collaborations.** The National Science Foundation is calling for planning proposals for advancing inclusive wildland fire science via diverse knowledge systems. Proposals that aim to develop a deeper understanding of wildland fire as integrated social-cultural-ecological-technological systems and improve education across multiple levels, in informal settings and/or formal settings and spanning pre-college through postsecondary levels, are also encouraged. Budget requests may not exceed \$100,000 per year, with a duration of up to two years. **Applications due 31 May.**

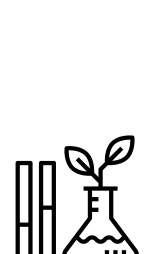


## Ongoing



**Agriculture and Food Research Initiative (AFRI) Foundational and Applied Science Program.** This National Institute of Food and Agriculture (NIFA) program invests in agricultural production research, education, and extension projects for more sustainable, productive, and economically viable plant and animal production systems. 2023 priority areas include plant health and production; animal health and production; food safety, nutrition, and health; bioenergy, natural resources and environment; agriculture systems and technology; and agricultural economics and rural communities. Applications that address climate change, food security, expanding markets for producers, traditional ecological knowledge, and equity for underserved producers are welcome. **Applications due between August and November 2023 based on Program Priority Areas.**

**Extension, Education & USDA Climate Hubs Partnership,** program priority area has been updated to allow for maximum award amounts are \$1 million for 3-5 years and projects can be in one Climate Hub region. **Letters of Interest due 4 May.**



**Sabbatical Research and Education Call for Proposals.** This Western Sustainable Agriculture Research and Education (SARE) Sabbatical Grants provide an opportunity for faculty around the world to partner with farmers, ranchers, agricultural professionals, and researchers of the western U.S. region for conducting research, education, and extension activities. Projects focused on unexplored topics in underserved communities and understudied geographic locations are of special interest. \$75,000 limit/one year in scope. **Proposals due 21 November.**



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