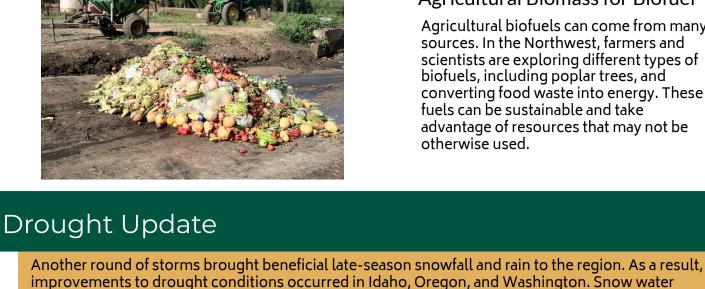
Featured Article



sources. In the Northwest, farmers and scientists are exploring different types of

Agricultural Biomass for Biofuel

Agricultural biofuels can come from many

biofuels, including poplar trees, and converting food waste into energy. These fuels can be sustainable and take advantage of resources that may not be otherwise used.

enough to overcome long-term precipitation deficits, and low snowpack and early rapid melt-out in several areas, which continue to drive persistent drought conditions throughout much of Oregon and Idaho. Statewide reservoir storage levels remained below normal across Idaho and Oregon. Washington

maintains normal levels of reservoir storage. A portion of western Alaska is abnormally dry (D0-yellow), but the majority of Alaska is free of dry conditions. **National Integrated Pacific Northwest** CoCoRHaS **Drought Information** Community Rain Drought **Drought Impacts** System Hail Snow Network

equivalent levels for most basins are at or above normal. However, the wet and cool April was not nearly

U.S. Drought Monitor May 17, 2022





USDA Northwest Climate Hub



74.37

74.34

74.26

74.10

25.63

25.66

25.74

25.90

21.09

21.68

23.24

23.79

Current

Last Week

05-10-2022 3 Months Ago

Start of

Calendar Year

(Released Thursday, May. 19, 2022) Valid 8 a.m. EDT Drought Conditions (Percent Area) None D0-D4 D1-D4 D2-D4 D3-D4

14.50

15.09

6.19

6.61

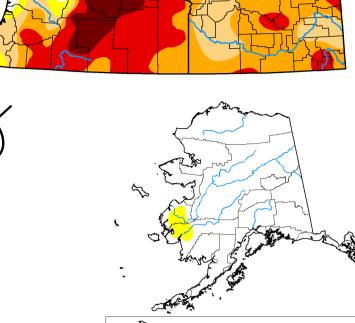
6.81

1.56

1.68

1.89

2.01



How Much Heat and Drought

analysis of global forest die-off

conditions. Models show that

drought will be much more

common in forests globally.

summarizes drought over the

past two decades using the

U.S. Drought Monitor. The

differences in drought across

What Can a Moth Teach Us

About Adapting to Climate

Understanding how two genes

have helped the European corn borer moth to respond to

changes in climate may assist

scientists in helping other

species adapt to climate

results of the study show significant geographical

Twenty Years of Drought

A recent paper that

the United States

Change?

Examined

in the future, extreme heat and

is Too Much for Forests?

from heat and drought

This article summarizes an



Intensity: D2 Severe Drought None D4 Exceptional Drought D1 Moderate 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 Richard Heim NCEI/NOAA **USDA**

droughtmonitor.unl.edu







West land managers

conservation strategies.

type, region, and topic.

Increased Evaporative

Resources can be filtered by

Demand Means Less Water

Supply and Higher Fire Risk

Evaporative demand, or how

much water the atmosphere

pulls from the land surface, has increased since 1980.

Researchers at the Desert

Research Institute analyzed the rate of change and its

in implementing



Information



change. **Breeding Hops for Climate** Dr. Shaun Townsend, breeder of aroma hops at Oregon State University, discusses how

agricultural producers can

changing climate.

change practices to adjust to a

Risk and Regulation of Alaska Fire Modeling and Invasive Plants in a Changing **Analysis Committee Spring** Climate, 19 May, 1-2 pm PST.



future implications. Timing of Risks and Benefits to Breed Barley for Future Climates Dr. Patrick Hayes discusses why breeding barley for cold temperatures could help to prepare for climate change in the region.

Adapting to Climate Change

River basin is dependent on

snowmelt and irrigation. This

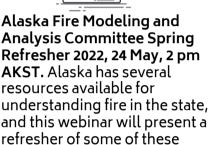
article discusses some of the

and mitigation opportunities

for agriculture in the region.

climate change challenges

in the Yakima Basin Agriculture in the Yakima



the 2022 fire season.

resources before the start of

Presenters will include Chris

Moore and Lisa Saperstein.

Refresher 2022, 24 May, 2 pm

Northwest River Forecast Center Water Supply Forecast Monthly Briefing, 2 June, 10-11 am PST. This monthly webinar will focus on current hydrologic and climatic conditions and water supply forecasts for the Columbia and Snake River basins. The

Northwest River Forecast

Center holds these water

supply briefings from January through late spring on the first

Thursday of each month. The

briefings are composed of two

parts: a telephone conference

call and a web-based

presentation.

Washington. Panelists will also discuss the intersection of climate change with invasive

Webinars

This webinar from the

research to evaluate

Northwest Regional Invasive

Species and Climate Change

invasibility and create risk

Network will discuss ongoing

rankings for invasive plants in

Pacific Northwest Drought Early Warning System (PNW-

DEWS) June Drought and

June, 11 am-12 pm PST.

Climate Outlook Webinar, 27







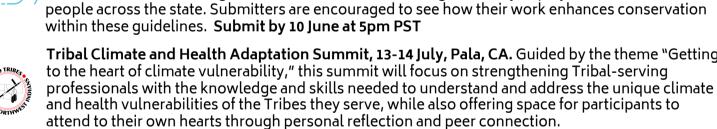


How Can We Quantify and Reduce Agricultural N2O Emissions at Scale?, 12 July, 12 pm PST. This webinar will focus on nitrous oxide (N2O), the primary greenhouse gas emitted by agricultural soils. Dr. Allison Eagle will discuss N2O emissions accounting at large spatial scales, and Dr. Mike Castellano will discuss the potential for reducing N2O emissions through improved water management in the U.S. corn belt.

Economic Development Strategies for Rural Communities, 1 June, 11:30 am-1 pm PST. This virtual panel will showcase the work of place-based practitioners, researchers, and philanthropists to develop inclusive, durable strategies for rural community development that

Forest Biomass Utilization in the Pacific Northwest, 25-26 May, 10am -2pm PST. This workshop will provide insights into bridging gaps between forest biomass research, product development, and successful biomass utilization in the Pacific Northwest to enable higher value products. It will align

products, processes, and opportunities



conference advances Oregon's conservation efforts through diversity, equity, and inclusion of all people across the state. Submitters are encouraged to see how their work enhances conservation within these guidelines. Submit by 10 June at 5pm PST Tribal Climate and Health Adaptation Summit, 13-14 July, Pala, CA. Guided by the theme "Getting to the heart of climate vulnerability," this summit will focus on strengthening Tribal-serving

26 May - Business and Practitioner Focus. Biomass business leaders discuss successful



May

also be shared.

our relations. Registration TBA.

online. This conference focuses on climate change adaptation and resilience efforts by Tribal and Indigenous people and communities. People from all backgrounds, including Tribal and Indigenous resource professionals, federal staff, personnel from universities, nonprofits, and students from academic institutions, including Tribal colleges and universities, are invited to attend. **Funding Opportunities**

June con't

Translating Coastal Research into

Research Program (USCRP). A funding opportunity is available to integrate research,

Application, Sea Grant and the U.S. Coastal

its application, and community engagement in long-term coastal evolution, extreme

storms, and human and ecosystem health.

may be funded at up to \$150,000 over two

Eligible applicants are Sea Grant College

and Sea Grant Coherent Area Programs.

Bureau of Indian Affairs Tribal Climate

recognized tribes for climate adaptation,

This fiscal year, approximately \$46 million in

ocean and coastal management, relocation, managed retreat, or protect-in-place, and

Resilience Annual Awards Program.

funding will be released to federally

internships and youth engagement. A

webinar will be hosted on the funding

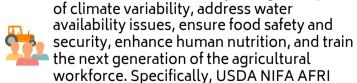
Letter of intent due by 15 June and

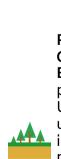
applications due by 30 August.

Programs, Sea Grant Institutional Programs,

years or up to \$500,000 over four years.

National Tribal and Indigenous Climate Conference, 29 August-1 September, St. Paul, MN and





Partnerships for Climate Smart **Commodities Funding Opportunity Extended.** The USDA will finance pilot projects that create market opportunities for U.S. agricultural and forestry products that use climate-smart production practices and include innovative, cost-effective ways to measure and verify greenhouse gas benefits. Successful candidates will implement climate-smart production practices, activities, and systems on working lands, measure/guantify, monitor, and verify the carbon and greenhouse gas benefits associated with those practices, and develop

Hubs and extension. Letter of intent due by

2 June. Applications due by 6 October.

Find Climate Hub priorities here.

Ongoing Rapid Response to Extreme Weather: Food and Agricultural Science Enhancement (FASE) Grant. This program is designed to rapidly deploy strategies and fill knowledge and information gaps to protect the nation's food and agricultural supply chains, from production through consumption, during and after extreme weather and disasters. All applicants must directly address effects associated with an extreme weather event or disaster that has occurred and address agroecosystem resilience,

will offer an experiential opportunity for participants to renew in-person connections with the work of the coalition. Further details will be provided soon. Registration TBA priorities and Forest Service policies. Meetings are on Microsoft Teams.

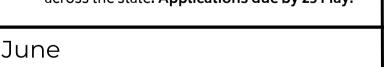
Call for Abstracts - Oregon Conservation Education and Assistance Network (OCEAN) CONNECT+, 6-8 September in Seaside, OR. The three-day, immersive conference will bring together local, state, and federal decision-makers, professionals from conservation districts, watershed councils, land trusts, and others committed to conserving natural resources. This

can help overcome challenges and lead to lasting rural community prosperity.

In-Person Field Tour: The virtual economic development session will also include an opportunity for people to gather in Enterprise, Oregon to discuss and see some of the

strategies and initiatives used by Wallowa Resources to help their community. The field tour

allotted for research presentations, and posters can be displayed in the evening. In addition to presentations, there will be a full-day field trip to feature soils of the Blackfoot River Valley, regional



Institute of Food and Agriculture's (NIFA)

education, and extension grants to improve

rural economies, increase food production,

stimulate the bioeconomy, mitigate impacts

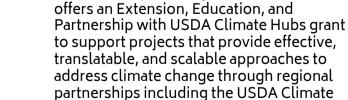
AFRI program has several research,

Solar Grant Program, Washington State **Department of Commerce.** \$1.2 million in

funding is available to install solar at public

buildings and facilities, such as schools, hospitals, civic buildings, and wastewater

treatment plants, in Washington. These grants cut energy costs, reduce pollution,

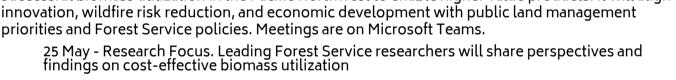


markets and promote the resulting climatesmart commodities. **Apply by 10 June.** Community Renewable Energy Grant

Program, Oregon Department of Energy.

The Community Renewable Energy Grant Program is open to Oregon Tribes, public

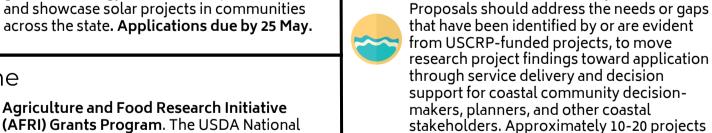






Tribal Lands and Environmental Forum, 8-11 August, Milwaukie, WI and online. The 12th annual forum for environmental professionals will provide a space for Tribes; state, local, federal agencies; community organizations; and other interested parties to meet, share knowledge and learn from one another how to improve management, protection, and restoration of Tribal lands for us and all

2022 Western Regional Cooperative Soil Survey Conference, 26-29 July, Missoula, MT. This conference will feature presentations from regional and national Natural Resource Conservation Service employees, cooperating agencies, and Montana State University partners. Time will be



July

opportunity on 25 April, 12:30-2 pm PST. Applications due by 6 July. America the Beautiful Challenge. This new grant program is focused on locally led ecosystem restoration projects that seek to advance conserving and restoring rivers, coasts, wetlands, watersheds, forests, grasslands, and other important ecosystems

that serve as carbon sinks; improving

ecosystem and community resilience to

Tribal and Indigenous-led efforts and to

consider how proposals build the

future. Applications due by 21 July.

coastal flooding, drought, and other climate-

related threats; and more. Applicants will be

conservation and resilience workforce of the

Clean Lakes, Estuaries, and Rivers Initiative. The USDA Farm Service Agency is offering a

encouraged to prioritize projects that uplift



August

nationwide opportunity for landowners and agricultural producers currently implementing water quality practices through the Conservation Reserve Program to enroll in 30-year contracts, extending the lifespan and strengthening the benefits of important water quality practices on their land. To sign up, landowners and producers should contact their local USDA Service Center by **5 August**. Find you local service center by clicking here.

agricultural commodity, and nutrition security, and/or health, well-being, and safety. FASE grants will accept applications continuously, so long as a Letter of Intent is submitted within 14 days of an extreme

To unsubscribe email holly.prendeville@usda.gov

Opportunity to Join Team in Developing Northwest Climate State of Knowledge Synthesis The University of Washington Climate Impacts Group is seeking individuals from Northwest Climate Adaptation Science Center University Consortium members — Boise State University, Oregon State University, University of Montana, University of Washington, Washington State University, Western Washington University — who are interested in being part of a team to develop the Northwest Climate State of Knowledge Synthesis. Time commitment to this project can be as little as one quarter, but the project will be running through December 2023.

ORTHWEST Signup to receive our newsletter by clicking on this box and providing your contact CLIMATE information on the form.

Opportunity

weather event.