



## This guide from the Northwest Climate

Hub and the University of Washington Climate Impacts Group discusses climate impacts on forests and actions landowners can take to increase climate resilience. The guide is for small forest landowners in Western Washington, and organizations that support these landowners to manage their forests.

#### Much of Idaho, Oregon and Washington have seen improvements in recent months due to continuous storms and near to below-normal temperatures. That same pattern continued this week. Both northern Idaho, western Washington, and northwestern Oregon have returned to normal conditions. Areas of the

southern Idaho and Oregon received precipitation that improved conditions. Despite these improvements there are still areas experiencing severe (D2-orange), extreme (D3-red), and exceptional drought (D4-dark red) in Idaho and Oregon. Over 30% of Alaska is experiencing abnormally dry (D0-yellow) conditions. Moderate drought (D1-tan) conditions are affecting over 10% of the state with two areas in Southcentral and one area in Southwest. These dry conditions are a result of above-normal temperatures and below-normal precipitation.

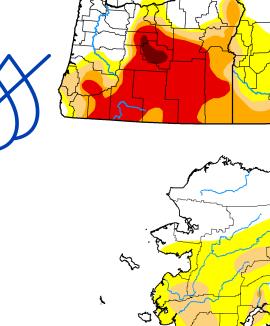
National Integrated CoCoRHaSSnow **Pacific Northwest Drought Information** Community Rain Drought Drought Impacts Hail Snow Network System Conditions Survey







U.S. Drought Monitor June 14, 2022 (Released Thursday, Jun. 16, 2022) **USDA Northwest Climate Hub** Valid 8 a.m. EDT Drought Conditions (Percent Area) None D0-D4 D1-D4 D2-D 22.01 50.37 8.40 5.02 0.23 49.63 Current



A Manure Maneuver

Dairy farmers are injecting

ground to enrich soil, minimize

soil disturbance, and combat

the effects of climate change.

manure directly into the

Digital Tools for Fruit & Vegetable Growers

The Agriculture and Food

Systems Institute developed

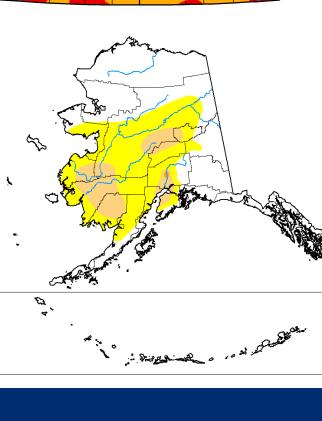
the future and support longterm planning for fruit and

vegetable production.

this tool to prepare farmers for

Check It Out: What We Know

About Smoke & Wine Grapes



Last Week 52.03 47.97 18.00 10.81 5.85

0.67

3 Months Ago 03-15-2022	75.56	24.44	22.90	14.63	6.40	1.84	
Start of Calendar Year 01-04-2022	74.10	25.90	23.79	15.09	6.81	2.01	
Start of Water Year 09-28-2021	70.14	29.86	27.67	24.87	18.54	7.83	
One Year Ago 06-15-2021	61.06	38.94	24.76	16.17	6.54	0.64	
Intensity:							
None			D2 Severe Drought				
D0 Abnormally Dry			D3 Extreme Drought				
D1 Moderate Drought				D4 Exceptional Drough			
The Drought Mor Local conditions Drought Monitor, Author:	may var	y. For m	nore info	rmation	on the		
Adams Hartman							

NOAA/NWS/NCEP/CPC

**USDA** 





**Rotational Grazing** 

grazing, could help

climate change.

This Northwest Climate Hubs

article conveys how rotational

agricultural producers mitigate and adapt to the effects of

Climate Change & Agriculture This webpage is a compilation

of research of climate change

issues related to agriculture

completed by the USDA

grazing, a form of managed

Information



AgClimate.net provided a summary of a recent magazine article describing what we know about the complexities of wildfire smoke on grapes and wine. **US Fish & Wildlife Service** 

A spotlight on the impacts of

describes how collaborations

indigenous groups are helping to address related issues.

Climate Change & Wildfire in

Idaho, Oregon, & Washington

The Northwest Climate Hub

developed a web article that

between climate change and

describes the relationship

climate change on birds,

habitat, and migration

between ranchers and

**Spring news** 



Economic Research Service. Short Films on Climate **Adaptation Resources** A series of short films highlight the work of the USDA Climate Hubs, and describe ways to store carbon and reduce

methane, enhance community

Biochar Basics: Science You

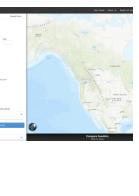
resilience, and foster

partnerships.

Tool



wildfire, and explores how changing wildfire patterns will affect forests. Significant Wildland Fire Potential Outlook June 2022



Can Use This guide discusses the ins and outs of biochar, including how it is made, processed, and used, and how it can help to sequester carbon. Seedlot Selection Tool and Climate Smart Restoration

A recent article in the journal

two web-based tools for

sourcing seed adapted to

lotes de semillas está disponible en español

future climates and provides

case studies of applications. La herramienta de selección de

Ecosphere discusses the use of



Webinars

Pacific Northwest Drought

DEWS) June Drought and

June, 11 am-12 pm PST.

Early Warning System (PNW-

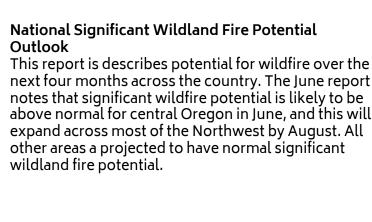
Climate Outlook Webinar, 27

These webinars provide timely

Speakers will also discuss the

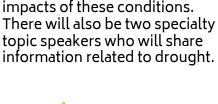
2022 NWS Alaska Climate

State Border



next four months across the country. The June report notes that significant wildfire potential is likely to be above normal for central Oregon in June, and this will expand across most of the Northwest by August. All other areas a projected to have normal significant

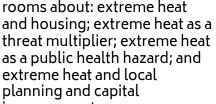
#### information on current and developing drought conditions, as well as climatic events such as La Niña.





also be shared.

academic institutions, including Tribal colleges and universities, are invited to attend. Oregon Conservation Education and Assistance Network (OCEAN) CONNECT+, 6-8 September in



**Resilient Nation Partnership** 

Extreme Heat Resilience, 29

discussion about the impacts

country, led by The Resilient

Nation Partnership Network,

University of Arizona, Arizona

State University, and the City of

of extreme heat across the

Phoenix. Resilience ideas.

collaboration opportunities

will be a welcome addition to

the conversation. The session will include four breakout

projects, resources, and

**Network Ideation Hour:** 

June, 10 - 11 am EST. This

webinar will focus on

improvement. 2022 Annual Soil and Water Conservation Society Conference, 31 July-3 August, Denver, CO. This year's conference aims to bring together people from all backgrounds. It will feature the latest ideas, technologies, and practices and foster a dialogue around water conservation efforts. Through workshops, sessions, symposia, tours, exhibits, and demonstrations, cutting-edge research and practice developments in soil health, water quality, and resource management will be shared.



focus on nitrous oxide (N2O),

How Can We Quantify and

Emissions at Scale?, 12 July, 12

Reduce Agricultural N2O

pm PST. This webinar will

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.

**USGS and NOAA National** 

**Listening Session: Water** 

availability prediction for

session will include a short

introduction to water

ecosystems. 8 September, 10 -12:30 pm PST. This listening

availability prediction products

development or improvement

at the national and/or regional

for ecosystems, followed by

quided discussions with participants on research

priorities for product

scale.



Current policies, practices, and research about climate change and climate-smart agriculture will 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, and 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 our relations. Registration must be completed by 25 July for in-person and 5 August for National Tribal and Indigenous Climate Conference, 29 August-1 September, St. Paul, MN and 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 and nonprofits, and students from



Intertribal Nursery Council, and Intermountain Container Seedling Growers' Association. **Funding Opportunities** June August

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

**10th Annual Rising Voices Workshop, Virtual, 14-16 September.** The Rising Voices Center for Indigenous and Earth Sciences facilitates opportunities for Indigenous and non-Indigenous scientific experts and community leaders from around the world to jointly address how extreme weather and climate events are impacting communities, and to develop action plans. This year's workshop theme, Emergent Knowledge through Indigenous and Earth Science Collaborations, will serve as a bridge to reflect on where Rising Voices has been in its first decade, and what emerges

Reforestation Pipeline in the Western United States, Missoula, MT, 27-29 September. Large scale

conference will provide a forum to discuss the potential challenges to reforestation in the West. This meeting is a joint annual meeting for the Western Forest and Conservation Nursery Association,

others committed to conserving natural resources. This conference advances Oregon's conservation efforts through diversity, equity, and inclusion of all people across the state.

into the next decade. Registration information for this virtual workshop to come.

reforestation is one proposed solution to help mitigate the effects of climate change. This

### and precipitation. Applications due by 22 June. National Coastal Wetlands Conservation **Grants.** Coastal wetlands will become

provides grants of up to \$1 million to coastal and Great Lakes states, as well as U.S. territories, to protect, restore, and enhance coastal wetland ecosystems and associated uplands. **Applications due 24 June.** July Bureau of Indian Affairs Tribal Climate Resilience Annual Awards Program. This fiscal year, approximately \$46 million in funding will be released to federally recognized Tribes for climate adaptation, ocean and coastal management, relocation, managed retreat, or protect-in-place, and internships and youth engagement. 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

conservation and resilience workforce of the

that serve as carbon sinks; improving ecosystem and community resilience to coastal flooding, drought, and other climaterelated threats; and more. Applicants will be encouraged to prioritize projects that uplift Tribal and Indigenous-led efforts and to

consider how proposals build the

future. Applications due by 21 July.

2022 Matching Awards Program, National

Foundation is currently accepting proposals

for its Matching Awards Program (MAP). MAP

is a national, competitive grant program that provides federal funds for on-the-ground

communities in caring for their public lands.

Promoting ecosystem health for forests and

grasslands will ensure that they are capable of adapting to future changes in temperature

sequestration and wildlife habitat, and may

and enhancing coastal wetlands now will

help them to be more resilient to future

changes. The National Coastal Wetlands Conservation Grants Program annually

be threatened with sea-level rise. Protecting

Forest Foundation. The National Forest

projects benefiting America's National

Forests and Grasslands. The program

supports action-oriented projects that enhance outdoor experiences, forest, and

ecosystem health, and engage local

increasingly important for carbon

#### USDA Accepting Applications to Help Cover Costs of Organic, Transitioning **Producers**. Transitioning to organic farming may be one way for farmers to combat the climate crisis. Organic farming can help with

October



carbon storage by improving soil health. This fund will help farmers cover fees associated with organic certification. **Applications due** 31 October.

Clean Lakes, Estuaries, and Rivers Initiative.

The USDA Farm Service Agency is offering a

nationwide opportunity for landowners and

through the Conservation Reserve Program

to enroll in 30-year contracts, extending the

land. To sign up, landowners and producers

Find you local service center by clicking here.

Proposals for the Joint Chiefs' Landscape

Department of Agriculture (USDA) is asking

improve forest health on public and private

lands by reducing wildfire risks in a municipal

for proposals from partners that aim to

watershed or wildland-urban interface.

**USDA's Natural Resources Conservation** 

Service and the Forest Service are **seeking** 

**Restoration Partnership**. The U.S.

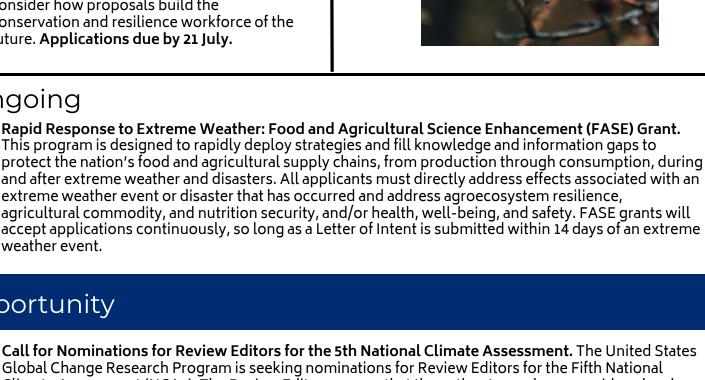
lifespan and strengthening the benefits of important water quality practices on their

should contact their local USDA Service

agricultural producers currently implementing water quality practices

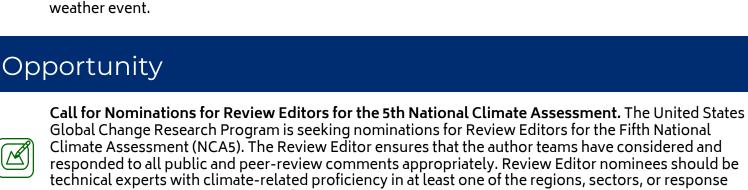
Center by **5 August**.

proposals by 5 August.



To unsubscribe email holly.prendeville@usda.gov

# Ongoing



topics outlined in the NCA5 Table of Contents. Nominations must be submitted by 11:59 PM ET on 1

University of Washington Climate Impacts Group Hiring New Director. The director's duties will



HUB

or terminal professional degree and at least nine years of experience in a similar line of work. Applications due by 15 July. 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

the project will be running through December 2023. Signup to receive our newsletter by clicking on this box and providing your contact

information on the form.

include providing leadership for the organization, working collaboratively to set the direction for research, education, and outreach, and serving as the lead principal investigator on large research efforts, working with partners, and providing internal management. A successful candidate with a PhD

July.

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 three months, but NORTHWEST