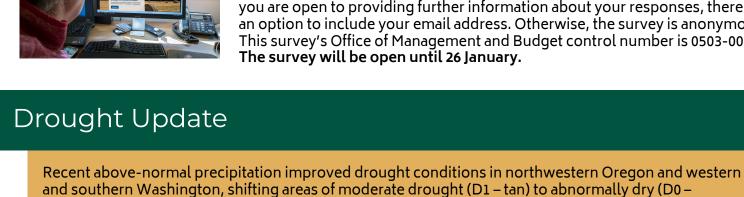


## Targeted Grazing for Wildfire Fuel Breaks in the Great Basin Climate change has heightened the risk of large and

frequent wildfires in the Great Basin, and caused the region

to enter a new era of megafires—fires that burn 100,000 acres or more. As a result, rangeland and fire managers will need management practices that can protect property, wildlife habitat, and resources from wildfire. This Hub Adaptation in Action profile demonstrates that targeted cattle grazing could provide one such management practice. Rangeland scientist Pat Clark and his team at the Agricultural Research Service have worked with partners to implement targeted cattle grazing to create effective wildfire fuel breaks on public rangelands.

# The USDA Climate Hubs want your feedback on our website to help improve our content delivery. This 5-10 minute national-level survey includes five



multiple-choice questions and two open-ended questions. If you have specific feedback for the Northwest Climate Hub (and we hope you do!), mention the Hub region (Northwest) in the open-ended response section. If you are open to providing further information about your responses, there is an option to include your email address. Otherwise, the survey is anonymous. This survey's Office of Management and Budget control number is 0503-0024. The survey will be open until 26 January.

improvement. In Oregon, moderate drought (D1 - tan) was introduced in the south Willamette Valley and central Oregon Cascades and moderate (D1 -tan) and severe (D2 - orange) drought expanded in the north-central part of the state. These expansions were in response to below-normal water-year-to date precipitation on top of longer-term deficits and groundwater impacts. Alaska remains drought-free. CoCoRHaS Condition **National** Snow Community Monitoring Integrated Drought Drought Rain Hail Snow Observer Information System Information Network Reports U.S. Drought Monitor **January 17, 2023** 

yellow) or no drought conditions (white areas).In Oregon, 1-category improvements were made to extreme (D3 - red) and severe (D2 - orange) drought in the southeast and near Klamath County based on above-average snow water equivalent and improvements to long-term indicators such as 6- to 24month precipitation and shallow groundwater. In Idaho, severe (D2 - orange) and moderate (D1 - tan)

drought improved where precipitation deficits over the past 12 months and streamflows show





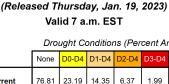


Current 76.81

> 75.03 24.97

Last Week

3 Months Ago



14.17 7.56

Drought Conditions (Percent Area) 6.37 1.99 0.16

3.02

3.90

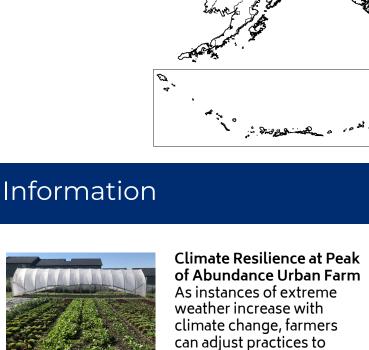
0.16

0.16

0.16

Start of Calendar Year 75.01 24.99 Start of Water Year 70.29 29.71 One Year Ago 01-18-2022 74.27 25.73





protect their crops. This

**Hub Adaptation in Action** 

profile highlights the use of

high tunnels, shade cloths,

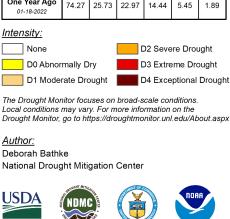
and drip irrigation at Peak

of Abundance urban farm

in Spokane, Washington.

15.00 3.06 18.36 7.80 3.90 22.97 14.44 5.45

29.81



droughtmonitor.unl.edu



**Leasing Partial Water** Rights in Washington State Partial leasing could encourage farmers to participate in water markets and meet diverse water needs as climate change increases the demand on water. Read this Agricultural Climate Network article to learn **USDA Funds Idaho** Renewable Energy

Twelve renewable energy

projects in Idaho received

clean energy, and combat

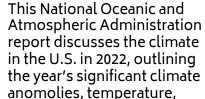
Assessing the U.S. Climate

precipitation, drought, and

climate extremes, among

funding to lower energy

costs, expand access to



other metrics.

climate change.

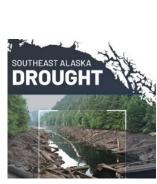
**Projects** 

in 2022



resilience.

Solar Leasing for Agricultural Landowners in the Pacific Northwest, 19 January, 31 January, 16 February, 4 March, Online Only. To accompany the recent release of the guidebook, Solar Leasing: A Guide for Agricultural Landowners in the Pacific Northwest, the American Farmland Trust is offering workshops to help agricultural landowners better understand the complexity of solar leases. Each workshop is identical, so landowners only need to attend one. Annual Idaho Water Quality Workshop, 1-2 February, Boise, ID and online. The 33rd Idaho Water Quality Workshop will discuss water quality methods, results, and policies. Since 1990, this workshop has provided a forum for technical dissemination of water quality topics, networking, and sharing information. This workshop has sessions focused on monitoring technology, the Lower Boise River, streamflow, data, metals, regulatory approaches, nutrients, and habitats in Idaho. Attendance is free, but registration is required.



Southeast Alaska Drought Assessment Although Southeast Alaska is one of the wettest areas in North America, it was plagued by drought from 2016 to 2019. This report provides comprehensive information on the drought, and can inform planning, adaptation, and mitigation activities.

Sixth Oregon Climate

Change Research Institute

assessment of the state of

climate change science as

effects of climate change

it relates to Oregon and the

The Oregon Climate

iust released the sixth

Assessment

on the state.

Northwest Pollinators and

In the Northwest, over 30

crops require pollinators

for pollination. This Hub

describes the effects of

outlines management

Northwest pollinators, and

article lists important

regional pollinators,

climate change on

actions to improve

pollinator habitat.

Climate Change



State of Global Water **Resources Report** This report assesses the effects of climate, environmental, and societal change on global water resources to support monitoring and management of global freshwater resources.

### Alaska Forum on the Environment, 6-10 February, Anchorage, AK and virtual. This is Alaska's largest statewide gathering of environmental professionals and will offer sessions on climate change, energy, environmental regulations, cleanup and remediation, fish and wildlife, solid waste, and more. This year, both in-person and virtual attendance is available for attendees and exhibitors.

foster climate resilience.

them. **Applications due 28 February.** 



SoilCon 2023, 14-15 February, online only. Soil health is a trending topic in agricultural production and environmental resilience to climate change, but what does the latest research tell us and how can we put it into practice for regional systems? SoilCon aims to address these questions for agriculture or natural resource professionals, producers, consultants, University faculty and students, and interested members of the public. Climate Change Preparedness Conference, 1-3 March, Washington, D.C. The three-day event will

be a convening of climate experts, government officials and policymakers, community organizers, youth leaders, environmental professionals, and other stakeholders to focus on adaptive solutions to

2023 Native Youth Climate Adaptation Leadership Congress, 25 June-1 July, Shepherdstown, West

Virginia. This experience invites Native communities to work together to address conservation challenges by providing training in leadership principles and conservation skills. Application is open to high schoolers from federally-recognized Tribes in their junior year (11th year). Students must be in a cohort of 3-5 individuals from their Tribe, and they will need a community mentor to accompany

2023 Society for Range Management Annual Meeting, 12-16 February, Boise, ID and virtual. The annual meeting will include technical tours, sessions, and meeting events that focus on rangelands-

related topics, including rangeland restoration, climate change adaptation, and wildland fire



₽ ₽ Climate Mapping for Resilience Tribal Health and Adaptation Emerald Ash Borer Webinar, 29 and Adaptation Portal Webinar, January, 7-8:30 pm PST. With the Peer-Learning Roundtable emerald ash borer (EAB) now in 19 January, 10 am PST. This Webinars, 19 January and 16 Oregon, it is essential to learn webinar will introduce the new February, and every 3rd Tuesday

until October 2023, 10 am PST.

conducting tribal vulnerability

assessments that incorporate

The January webinar will focus on

traditional ecological knowledge,

community input, and Western

the February webinar will focus

actionable adaptation plans that

wellbeing. These monthly 2-hour

webinars will further advance the

knowledge, skills, and networks

of Tribes adapting to climate

and Indigenous science, while

on preparing dynamic and

protect Tribal health and

### assessment tool. The web-based tool integrates information from across the federal government to help understand exposure to current and future climate-

related hazards.



Center will highlight how the risk of transformational drought is changing in the 21st century, and will provide a broad overview of

the phenomenon of

transformation.

Funding

transformational ecological droughts, including the diverse pathways by which they lead to

Climate Mapping for Resilience

Restoring Oregon's Dry Side

Forests, 1 and 15 February, and

every 1st and 3rd Wednesday until April 2023, 6 pm PST. This

complexities and realities of

"restoring" forests and other

ecosystems to historical

conditions. The 1 February

series will explore the

and Adaptation portal and

January Matching Awards Program - National Forest Foundation. The National Forest Foundation Matching Awards Program provides funding for results-oriented onthe-ground projects that enhance forest health and outdoor experiences on National Forests and Grasslands. Healthy forests will be more prepared to deal with climate change. Round 1 applications due 23 **Building Resilient Infrastructure and Communities Program.** This program funds states, U.S territories, Indian tribal governments, and local communities for

> pre-disaster mitigation, with a focus on disasters, risks, and hazards, including those

program offers support through capability-

associated with climate change. The

promoting partnerships and enabling

public. **Applications due 27 January.** 

Office of Indian Energy is soliciting

applications from Tribes to install clean

energy generating system(s) and energy efficiency measure(s) for Tribal buildings;

deploy community-scale clean energy

Tribal lands; or install integrated energy system(s) for autonomous operation to

Applications due 9 February.

generating system(s) or energy storage on

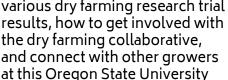
investments to reduce risk from natural

hazards, equity, and supporting building codes, standards, and policies that will

protect the health, safety, and welfare of the

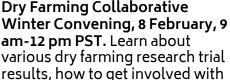
Clean Energy Technology Deployment on **Tribal Lands.** The Department of Energy

and capacity-building, innovation,



changes in climate.

Oregon Badlands Wilderness Area. Photo by Bob Wick, BLM. March



gathering. Dry farming can help producers adapt and diversify in response to water availability and

management practices, and integrated pest management solutions for combatting EAB and slowing ash mortality. As a follow up to this webinar, an inperson workshop will be scheduled in Spring 2023. 2023 Tribal and Indigenous Climate Speaker Series, 8 February, 11 am-12 pm PST. This

series is aimed at federal

all are welcome to join.

available on this website,

Indigenous Knowledge for

The February webinar will

discuss cultural resources,

including "Guidance on

Federal Agencies and

agencies and departments, and

Recordings of webinars will be

Departments" from 10 January.

sacred sites and climate change.

how to recognize and report this

destructive insect. This Oregon

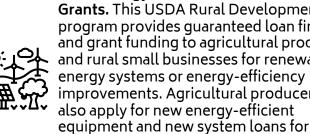
State University webinar will cover identifying EAB, Oregon

ash, and other common ash

species, current best



The Northwest Climate Resilience Collaborative Community Grants Program. The Resilience Collaborative seeks to fund justice-focused environmental and climate projects that advance community-centered resilience priorities. The Collaborative is particularly interested in supporting frontline communities and Tribes, or nonprofits and community organizations, that serve frontline communities and Tribe Awardees must be based in Washington, Idaho, or Oregon. The University of Washington will host an informational webinar about the funding opportunity on 20 January. Letter of interest due 28 February.



of ecosystem service assessment for decision making, and inform management, protection, and establishment of protected areas. These will help ecosystems prepare for climate change. Letter of intent due 14 March. Rural Energy for America Fiscal Year 2023 **Grants.** This USDA Rural Development program provides guaranteed loan financing and grant funding to agricultural producers and rural small businesses for renewable energy systems or energy-efficiency improvements. Agricultural producers may also apply for new energy-efficient

Earth Science Applications: Ecological

proposals that will improve or develop

decision-making activities to combat the

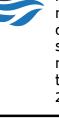
spread of invasive species, advance the use

Earth Science Division is calling for

Conservation, National Aeronautics and

Space Administration (NASA). The NASA





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

agricultural production and processing.

Applications due 31 March.

### power essential Tribal facilities during emergency situations or for Tribal community resilience. Individual awards vary depending on type of project with a range from \$100,000 to \$4,000,000.

February



received a major disaster declaration during the five-year period ending on 1 January 2021. Applications due 28 April. Ongoing Weatherization Pilot Program, Emerald Cities Collaborative. Low-income weatherization programs have been instrumental in improving lives and meeting energy efficiency goals in Washington. Emerald Cities Collaborative Northwest is working to refresh these programs in order



Applications opened 30 November. Signup to receive our newsletter by clicking on this box and providing your contact

information on the form.



to respond to climate change with more resources, collaboration with frontline communities, and a diverse workforce to implement these actions. This pilot program is funded through a Department of Energy Innovation Grant and aims to reach a majority of eligible low-income residents in hard-toreach, frontline communities. View this webinar to learn how to apply (start webinar at 11:24).

To unsubscribe email holly.prendeville@usda.gov