



National Integrated Drought Information System (NIDIS)

NIDIS Tribal Engagement and Workshop Objectives

Crystal J. Stiles, Ph.D., Tribal Engagement Coordinator



What is NIDIS?

- First authorized by Congress in 2006; reauthorized in 2014 and 2018.
- Interagency mandate to develop and provide a **national drought early warning information system**
- Enable the Nation to move **from a reactive to a more proactive** approach to managing drought risks and impacts
- Authorizes NIDIS to **engage in partnerships** with federal, state, tribal, and local partners, as well as the private sector, academic institutions, and citizen scientists
- Program is housed within **NOAA's Office of Atmospheric Research, Climate Program Office**
- Up for reauthorization **this year**

Unique Role of NIDIS

1

Convening and Coordination

Partnerships, consultations, networks, workshops

2

Delivering Information

Drought.gov, drought status updates, communications

3

Advancing and Integrating Research Into Action

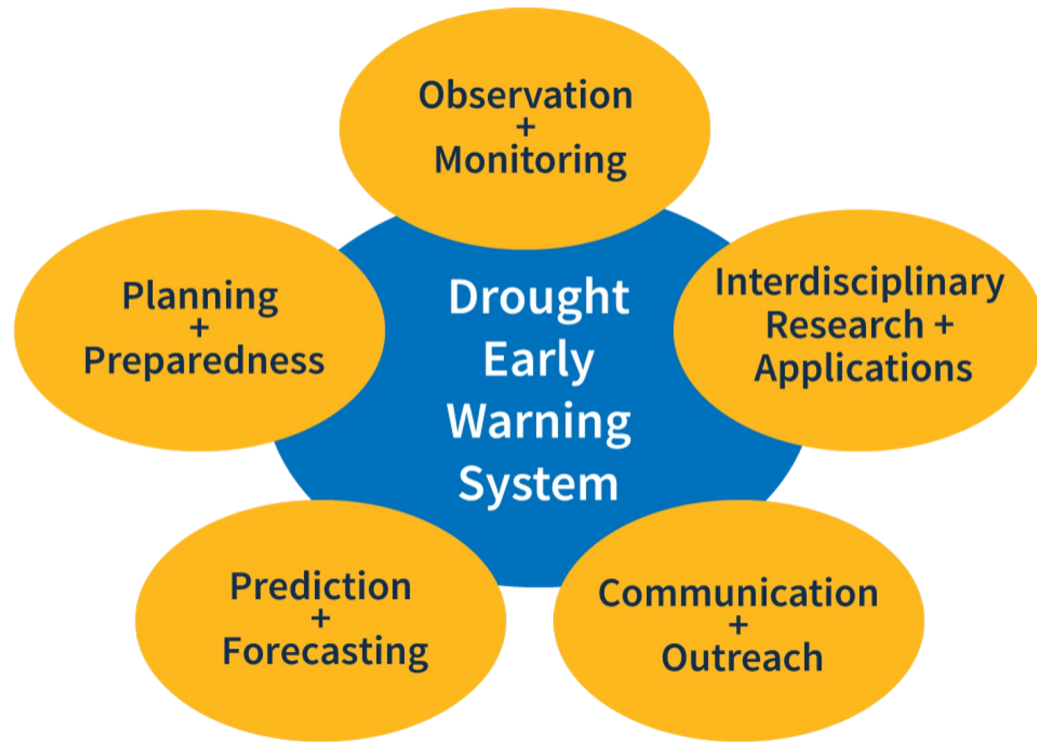
Applied research, products development, assessments

Interagency collaboration and partnerships are key to all we do!

APPROACH

Drought Early Warning

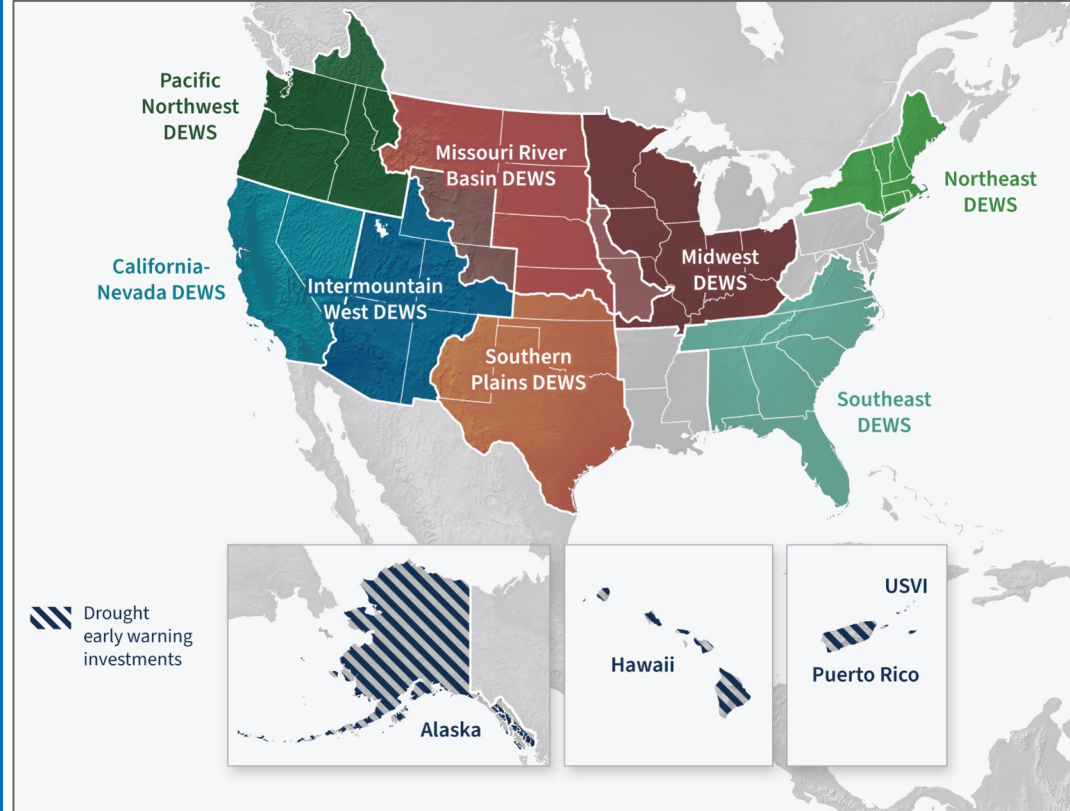
“Provision of **timely and effective information** that allows individuals exposed to a hazard to **take action** to avoid or **reduce their risk** and **prepare** for an effective response.”



REGIONS

Drought Early Warning Systems

A Drought Early Warning System (DEWS) utilizes new and existing **networks** of federal, tribal, state, local and academic partners to **make climate and drought science accessible and useful** for decision makers.



NATIONAL INTEGRATED DROUGHT INFORMATION SYSTEM (NIDIS)

NIDIS in Action Across the U.S.



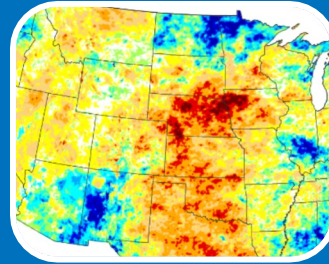
Drought in a
Changing
Climate



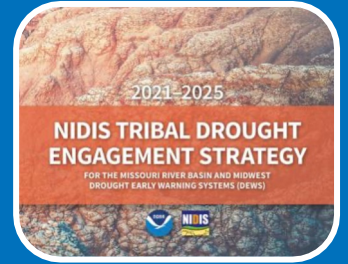
Drought &
Wildfire



Climate
Adaptive
Drought
Planning



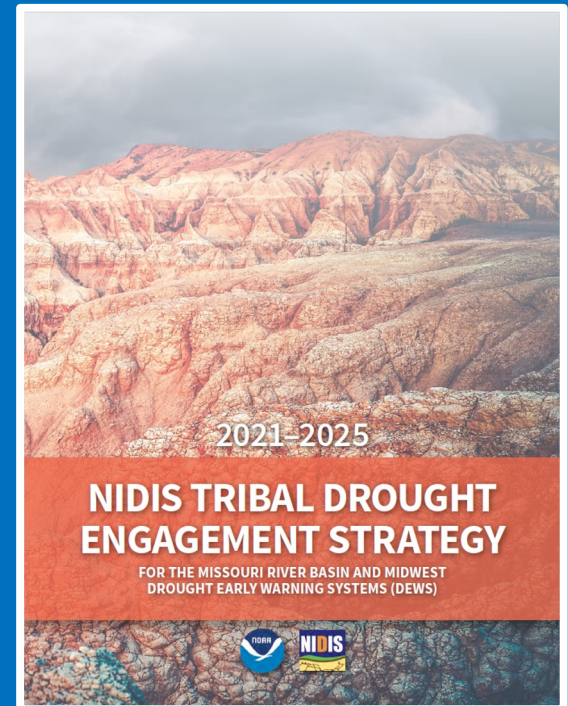
Drought
Indicators &
Triggers



Tribal
Drought
Resilience

NIDIS Tribal Drought Engagement Strategy

- Key tribal engagement activities to implement in 2021 and beyond.
- Integrating tribal perspectives into NIDIS' work is important to ensure tribal nations are equal partners in responding to drought.
- Presents *Guiding Principles of Engagement*:
 - Respecting tribal sovereignty
 - Ensuring trust and reciprocity
 - Ensuring DEWS are culturally appropriate and useful for tribal nations



FY22 Coping with Drought Grant Competition

Five Tribal Drought Resilience Projects

Chími nukárihihi (Let's Get Ready): Collaborative Climate Change and Drought Response Monitoring and Implementation (**Karuk Tribe**)

Native Drought Resilience: **Confederated Salish & Kootenai Tribes (CSKT)** Actions for Climate-Drought Adaptation

Developing a Drought Early Warning System and Indices for the **Confederated Tribes of the Umatilla Indian Reservation**

Strengthening Drought Preparedness on the **Coeur d'Alene Reservation** through Wetland Restoration and Monitoring

Enhancing Water Retention and Facilitating Groundwater Recharge to Protect and Maintain Springs (**Pueblo de San Ildefonso**)

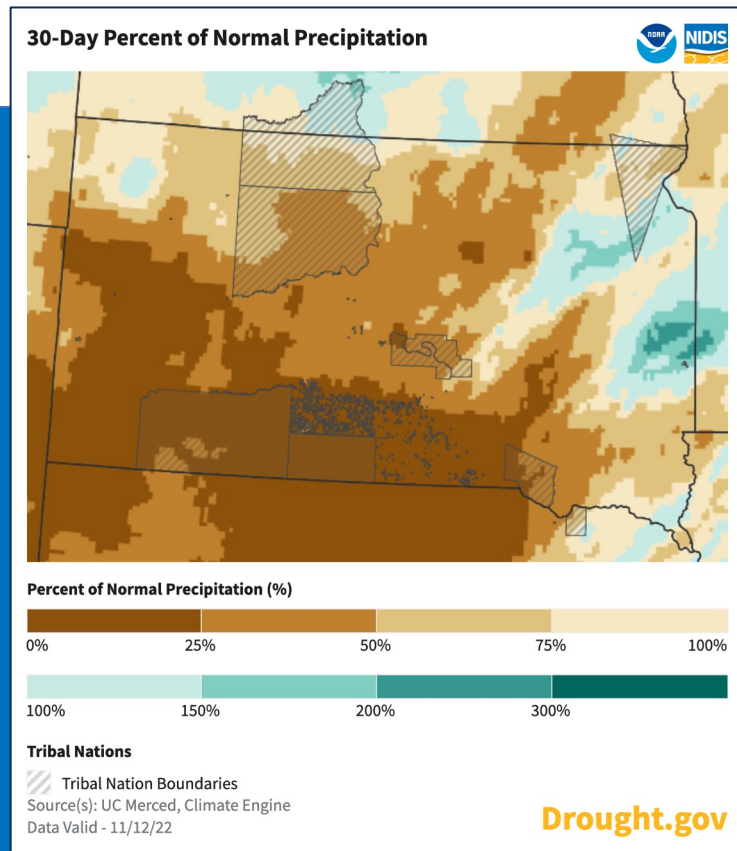


Drought.gov Content for Tribal Partners

The U.S. Drought Portal has a web page with information relevant to Tribal Nations, drought.gov/tribal.

- Drought monitoring on tribal lands
- Drought impacts
- Drought planning
- Case studies/projects
- Resources

Since Fall 2022, all downloadable maps on drought.gov now have the option to **add Tribal Nation boundaries!!**



Tribal Engagement through the Inflation Reduction Act (FY23-26)

Hired an indigenous consultant/liason who has been collaborating with NIDIS on projects for years to assist with tribal projects and engagement

NIDIS Coping with Drought FY24 grant competition for building tribal drought resilience in a changing climate across the West - just released!

Workshops with tribal nations in the West to learn more about key issues and needs/gaps regarding drought in a changing climate

- Workshop for Building Drought Resilience in a Changing Climate with Upper Columbia and Missouri Basin Tribes, September 26-28, 2023 in Polson, MT



NATIONAL INTEGRATED DROUGHT INFORMATION SYSTEM (NIDIS)

Workshop Objectives

Provide a forum for Tribal Nations and Tribal Colleges and Universities (TCUs) in the Upper Columbia and Missouri Basins to share successes, challenges, opportunities, and ideas for managing current and future drought in the context of a changing climate and associated climate extremes.

Bring Tribal Nations, TCUs, and their partners together to discuss best practices for communicating and collaborating on projects and responding to funding opportunities that address current and future drought.

Discuss high-priority data and information needs and gaps to inform NOAA-NIDIS's Tribal Drought Engagement Strategy and other efforts to support tribal drought resilience in the Upper Columbia and Missouri Basins.



Mission Reservoir. Photo courtesy of Mike Durglo

Expected Outcomes

Strengthen communication networks among Tribal Nations and TCUs in the Upper Columbia and Missouri Basins to further information exchange and ideas on how to prepare for, mitigate, and respond to drought.

Identify solutions for enhancing communication with Tribal Nations and TCUs to increase awareness of funding opportunities.

Enumerate tangible, high-priority next steps to address pressing drought information needs.



Mission Reservoir. Photo courtesy of Mike Durglo

NATIONAL INTEGRATED DROUGHT INFORMATION SYSTEM (NIDIS)

Tribes Represented at the Workshop

https://mt-climate-office.github.io/umrb_ucrb_tribes/

(Map courtesy of Kyle Bocinsky)



Mission Reservoir. Photo courtesy of Mike Durglo

Thank You

crystal.stiles@noaa.gov



www.drought.gov



@DroughtGov



@DroughtGov



National Integrated Drought
Information System

