

National Integrated Drought Information System

Interstate Council on Water Policy Annual Meeting ELIZABETH OSSOWSKI | OCTOBER 2019

NATIONAL INTEGRATED DROUGHT INFORMATION SYSTEM (NIDIS)

- What is NIDIS? Update on Activities at a National Level
- The 2019 National Drought Forum



NATIONAL INTEGRATED DROUGHT INFORMATION SYSTEM (NIDIS)





Regional Drought Early Warning Systems



Prediction and Forecasting



Integrated Research and Monitoring



Drought Planning and Preparedness



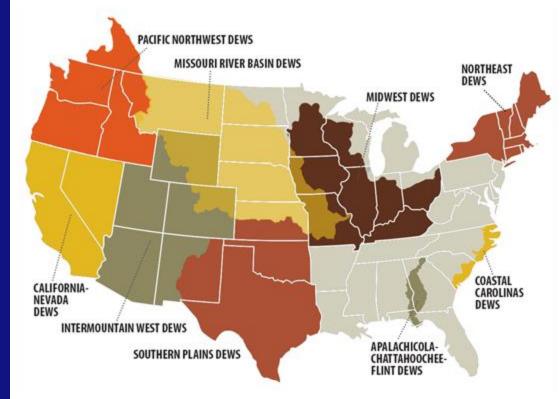
Collaboration with Existing Programs and Partners



The U.S. Drought Portal (www.drought.gov)

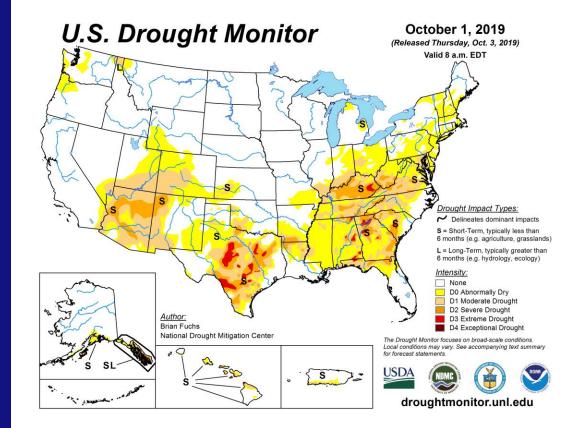
REGIONS

Drought Early Warning Systems



United States Drought Monitor

USDM

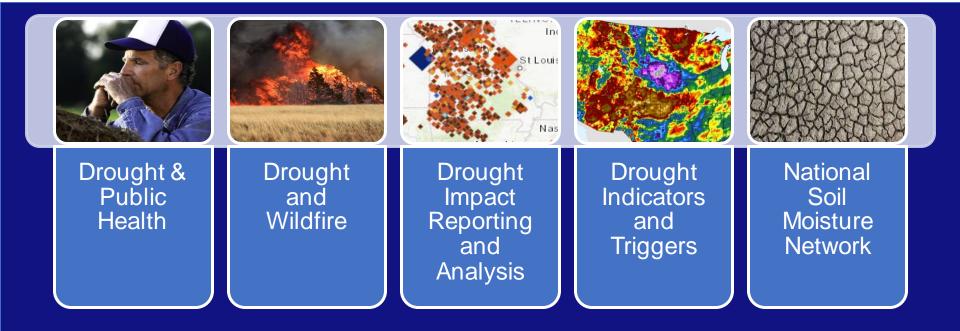


2019 Reauthorization

On January 7, 2019, the President signed S.2200 into law, the National Integrated Drought Information System (NIDIS) Reauthorization Act (Pub. L. 115-423):

- Funding increase to **\$14.5 million in fiscal year 2023**
- Engage in **partnerships with the private sector**, academic institutions, and citizen scientists
- Data, information, and products that reflect watershed differences in drought conditions
- Improvements in seasonal (3mo-2yrs), subseasonal (2wks – 3mo), and low flow water prediction
- National soil moisture monitoring network.

NATIONAL INTEGRATED DROUGHT INFORMATION SYSTEM (NIDIS) NIDIS in Action Across Regions



NATIONAL INTEGRATED DROUGHT INFORMATION SYSTEM (NIDIS) Drought & Public Health Linkages

2018-2020 Activities:

- ▼ Form a National Drought & Public Health Working Group
- Host a series of Regional Drought & Public Health Workshops
- ▼ Hold a 2019 Public Health Summit (completed)
- ▼ Support research & communication of linkages
- Create a public health sector space on the U.S. drought portal
- 2020 NIDIS Drought & Public Health Strategy









NATIONAL INTEGRATED DROUGHT INFORMATION SYSTEM (NIDIS) Coping with Drought FY20 Grant Program

Research to improve our understanding and use of drought indicators, thresholds, and triggers, and drought impacts.

- \$1.2 million per year
- 2-year cooperative agreements of up to \$650,000 total



Drought Impact Assessments: The Mississippi River

- Understand the sensitivity of the Mississippi River corridor to drought.
- Assess impacts and opportunities for reducing risks to small communities.

Focus Areas

- Agricultural production
- Commercial navigation & transportation
- Manufacturing
- Recreation and tourism





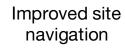
NATIONAL INTEGRATED DROUGHT INFORMATION SYSTEM (NIDIS)

National Soil Moisture Monitoring Network

- National, multi-platform soil moisture gridded products from existing soil moisture data sources across federal and state insitu monitoring networks, satellite remove sensing missions, and numerical modeling capabilities
- **Consistent methodology** for data collection and installation of in-situ probes including metadata standards
- Improve collaboration and identify funding opportunities to build the national network



Drought.gov Redesign



Enhanced mobile experience

New sector pages



New up-to-date drought statistics

Updated content

U.S. Web Design Standards

Anticipated Launch: March 2020

2 ND NATIONAL **DROUGHTFORUM** JULY 30-31, 2019 | WASHINGTON, DC



To assess the status of national drought readiness, to take stock of progress since the 2012 National Drought Forum, and to help provide new information and guidance for coordination to improve the nation's preparedness to drought.

Planning Committee



Panels and Keynotes

Day 1

- Linking National Security and Drought
- Drought Conditions: Past, Present, and Forecasted
- Drought Decisions around the New (Ab)Normal: Water Scarcity, Drought, and Aridity
- Keynote, Joaquin Esquivel, California Water Resources Control Board Chair
- Economics of Drought Part I: Understanding the Cost of Drought

Day 2

- Keynote, Neil Jacobs, Acting Administrator, NOAA
- Economics of Drought Part II: Risk Analysis and Investments that Drive Innovation
- Drought Policies: Congressional Perspectives
- Drought Coordination: Federal Water Officials and the National Drought Resilience Partnership
- Monitoring and Forecasting of Drought



2019 National Drought Forum July 30-31, 2019, Washington, D.C.

Outcomes

- Invest in forecasting improvements focusing on drought onset, flash drought, and rapid regime change between flood and drought
- Provide greater flexibility in Federal programs to allow/add drought resilience, especially FEMA
- Invest greater percentage of annual disaster response and recovery funding in resilience planning
- Partner with the private sector around risk and reinsurance; tie solutions to resilience planning and to financing
- Build incentives for investing locally in water storage – tying natural storage and restoration to human water supply goals
- Advance understanding of integrated surface and groundwater interactions, and use of stormwater for aquifer recharge
- Consider a drought-readiness campaign





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