



Midwest & Missouri River Basin Drought Early Warning Systems (DEWS) Partners Meeting

October 13-14, 2022 | Omaha, Nebraska



Meeting Location

Embassy Suites by Hilton Omaha Downtown/Old Market (Big Blue Room)
555 S. 10th Street | Omaha, NE

**We are offering limited remote participation.¹*

Meeting Goals

- To provide partners in the Midwest and Missouri River Basin DEWS an opportunity to network and learn from one another.
- To share success stories and challenges related to drought early warning.
- To learn about new and innovative drought research and resources.
- To explore emerging issues and potential opportunities to address these issues as regional networks.
- To explore capacities and synergies across federal, tribal, and state programs to address drought related adaptation, infrastructure, and mitigation.
- To identify collaborative paths forward that advance drought early warning and preparedness across both DEWS.

Agenda: Thursday, October 13, 2022

| Time (CT) | Topic | Who |
|--|--------------------------------------|---|
| 8:00 AM | Registration Table Open | |
| 8:30 AM | Welcome & Introductions | Molly Woloszyn <i>Regional Drought Information Coordinator, NOAA/NIDIS and University of Colorado-Cooperative Institute for Research in Environmental Sciences (CIRES)</i> |
| Session 1: Setting the Stage - Recent Drought Experiences + Lessons Learned <i>Moderator: Molly Woloszyn, NOAA/NIDIS, University of Colorado-CIRES</i> | | |
| 8:50 AM | 2020-21 Drought in the U.S. Northern | Natalie Umphlett |

¹ *We will have an online platform where a virtual audience can tune in to listen to presentations and discussions. However, we are not calling this a true “hybrid” event since group discussions will not be catered to a virtual audience. We will make an effort to have the discussion heard by the virtual audience, but the virtual audience will only be able to ask questions via the chat box.*

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|---|--|---|
| | Plains and Canadian Prairies: Initial Assessment of Impacts and Response to Build Resilience During an Ongoing Drought | <i>Climatologist, MRB Assessment Lead Author, Northeast Regional Climate Center</i> |
| 9:05 AM | Impact of Drought on the Winnebago Tribe of Nebraska | Denise Jensen <i>Water Quality Specialist, Winnebago Tribe of Nebraska (Virtual)</i> |
| 9:15 AM | 2022 Flash Drought in Missouri and Condition Monitoring Observer Reports | Jennifer Hoggatt <i>Deputy Director of Missouri Geological Survey, Missouri Department of Natural Resources</i> |
| Session 2: Regional Updates Part 1 <i>Moderator: Molly Woloszyn, NOAA/NIDIS, University of Colorado-CIRES</i> | | |
| 9:35 AM | National Coordinated Soil Moisture Monitoring Network (NCSMMN): A Focus on the MRB | Marina Skumanich <i>NCSMMN Program Specialist, NOAA/NIDIS and UCAR (virtual)</i> |
| 9:45 AM | Flash Drought: From Early Warning to Early Action | Jason Otkin <i>Associate Scientist, University of Wisconsin-Madison/Cooperative Institute for Meteorological Satellite Studies (CIMSS)</i> |
| 9:55 AM | Midwestern Regional Climate Center (MRCC) Update | Beth Hall <i>Director of the MRCC and Indiana State Climatologist, Purdue University</i> |
| 10:05 AM | NIDIS Tribal Engagement Activities | Crystal Stiles <i>Tribal Engagement Coordinator, NOAA/NIDIS and University of Colorado-CIRES</i> |
| 10:15 AM | 30-min Break <i>Snacks/drinks provided</i> | |
| Session 2: Regional Updates Part 2 <i>Moderator: Molly Woloszyn, NOAA/NIDIS, University of Colorado-CIRES</i> | | |
| 10:45 AM | USDA Midwest and Northern Plains Climate Hubs: Drought Collaborations | Dennis Todey <i>Director, USDA Midwest Climate Hub</i> |

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| 10:55 AM | U.S. Geological Survey (USGS) Mid-Continent Drought Update | Chris Hobza <i>Lead Hydrologist, Nebraska Water Science Center, U.S. Geological Survey</i> |
| 11:05 AM | U.S. Army Corps of Engineers (USACE) Drought Management Update | Chuck McWilliams <i>Program Manager Drought Response, USACE Omaha District</i> |
| 11:15 AM | High Plains Regional Climate Center (HPRCC) Update | Rezaul Mahmood <i>Director, HPRCC/University of Nebraska-Lincoln</i> |
| 11:25 AM | Drought and Human Health Midwest and Missouri River Basin Workshops | Jesse Bell <i>Professor of Water, Climate and Health Program, University of Nebraska Medical Center</i> |
| 11:35 AM | National Drought Mitigation Center Update + CMOR (Condition Monitoring Observer Reports) | Mark Svoboda <i>Director, National Drought Mitigation Center/University of Nebraska-Lincoln</i> |
| 11:45 AM | Highlights from Drought.gov | Kelsey Satalino <i>Digital Communications Coordinator NOAA/NIDIS and University of Colorado-CIRES (virtual)</i> |
| 12:05 PM | Lunch (<i>provided</i>) Lunch Speaker: Current Drought Conditions & Impacts in the Central US <i>Doug Kluck, Central Region Climate Services Director, NOAA/NCEI</i> | |
| Session 3: Rapid Transitions in Precipitation Extremes <i>Moderator: Deb Bathke, Climatologist/USDM Author, National Drought Mitigation Center</i> | | |
| 1:10 PM | Transitions in Precipitation Extremes in the Midwest: Trends, Causes, and Potential Future Risk | Trent Ford <i>Illinois State Climatologist, Illinois State Water Survey at the University of Illinois</i> Liang Chen <i>Assistant Professor in Earth and Atmospheric Sciences, University of Nebraska-Lincoln</i> |

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| Time (CT) | Topic | Who |
|--|--|---|
| 1:50 PM | Panel Discussion: Perspectives from Managing Transitions between Precipitation Extremes <ul style="list-style-type: none"> ● Laura Edwards: <i>South Dakota State Climatologist, South Dakota State University Extension</i> ● Mark Junker: <i>Tribal Response Coordinator, Sac and Fox Nation of Missouri Environmental Department</i> ● John Remus: <i>Chief, Missouri River Basin Water Management Division, U.S. Army Corps of Engineers, Northwestern Division</i> | |
| 2:35 PM | Group Discussion: <i>Rapid Transitions in Precipitation Extremes</i> | |
| 2:50 PM | Break (<i>snacks/drinks provided</i>) | |
| Session 4: Drought Assessment in a Changing Climate <i>Moderator: Dennis Todey, Director, USDA Midwest Climate Hub</i> | | |
| 3:10 PM | Drought Assessment has been Outpaced by Climate Change: Empirical Arguments for a Paradigm Shift | Zachary Hoylman <i>Research Assistant Professor and Assistant State Climatologist, University of Montana</i> |
| 3:45 PM | Group Discussion: <i>Drought Assessment in a Changing Climate</i> | |
| 4:25 PM | Day 1 wrap-up | Molly Woloszyn, NOAA/NIDIS |
| 4:30 PM | Meeting adjourns for the day | |
| 5:00-7:00 PM | Happy Hour - Hosted by JEO Consulting Group <i>Upstream Brewing Company - 514 S 11th St (0.1 miles away)</i> | |

Agenda: Friday, October 14, 2022

| Time (CT) | Topic | Who |
|--|--|--|
| 8:30 AM | Welcome to Day 2! | Molly Woloszyn, NOAA/NIDIS |
| Session 5: Drought Planning & Resilience | | |
| State and Regional Drought Planning and Resilience <i>Moderator: Crystal Stiles, Tribal Engagement Coordinator, NOAA/NIDIS</i> | | |
| 8:35 AM | Developing an Objective, Impacts-Based Framework for Drought Mitigation Activities in Ohio | Aaron Wilson: <i>Assistant Professor, Ag Weather and Climate Field Specialist, Ohio State University (virtual)</i> |

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| 8:55 AM | Leveling up Drought Plans to Build Resiliency in the Great Plains | Nicole Wall <i>Senior Planner, JEO Consulting Group</i> Becky Appleford, <i>Senior Planner, JEO Consulting Group</i> |
| 9:15 AM | Upper Mississippi River Basin Association Climate and Drought Resilience | Kirsten Wallace <i>Executive Director, Upper Mississippi River Basin Association (UMRBA)</i> |
| Federal-Level Drought Resilience Efforts <i>Moderators:</i> <i>Doug Kluck, Regional Climate Services Director, NOAA NCEI</i> <i>Mark Svoboda, Director, National Drought Mitigation Center/University of Nebraska</i> | | |
| 9:35 AM | Federal Panel <ul style="list-style-type: none"> ● Joe Chandler: <i>Lead Mitigation Planner, FEMA Region 7</i> ● Rob Lawson: <i>Nebraska State Conservationist, USDA Natural Resources Conservation Service (NRCS)</i> ● Sheri Looper: <i>Drought Program Coordinator, U.S. Bureau of Reclamation</i> ● Jason Daniels: <i>Lead Region Coordinator for the Office of Water, Environmental Protection Agency Region 7 Water Division</i> | |
| 10:35 AM | Break <i>Snacks/drinks provided</i> | |
| 10:50 AM | Group Discussion: <i>Drought Planning and Resilience</i> | |
| Session 6: Meeting Takeaways <i>Moderator: Molly Woloszyn, NOAA/NIDIS</i> | | |
| 11:30 AM | Group Discussion: <i>Meeting Takeaways</i> | |
| 12:00 PM | Meeting Ends - Thank you for coming! | |

A big thank you to the meeting planning team!

USDA Midwest and Northern Plains Climate Hubs, NOAA NWS and NCEI Central Region, National Drought Mitigation Center, Midwestern Regional Climate Center, High Plains Regional Climate Center, USGS Mid-Continent Region, Montana State Climate Office, and the Iowa State Climate Office.