

**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

**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>
<b>Session 1: Setting the Stage - Recent Drought Experiences + Lessons Learned</b> <i>Moderator: Molly Woloszyn, NOAA/NIDIS, University of Colorado-CIRES</i>		
8:50 AM	2020-21 Drought in the U.S. Northern Plains and Canadian Prairies: Initial Assessment of Impacts and Response to Build Resilience During an Ongoing Drought	Natalie Umphlett <i>Climatologist, MRB Assessment Lead Author, Northeast Regional Climate Center</i>

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Time (CT)	Topic	Who
9:10 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>
<b>Session 2: Regional Updates Part 1</b> <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>	
<b>Session 2: Regional Updates Part 2</b> <i>Moderator: Molly Woloszyn, NOAA/NIDIS, University of Colorado-CIRES</i>		
10:45 AM	U.S. Department of Agriculture (USDA) Midwest and Northern Plains Climate Hubs: Drought Collaborations	Dennis Todey <i>Director, USDA Midwest Climate Hub</i>
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>

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Time (CT)	Topic	Who
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> ) <b>Lunch Speaker: Current Drought Conditions &amp; Impacts in the Central US</b> <i>Doug Kluck, Central Region Climate Services Director, NOAA/NCEI</i>	
<b>Session 3: Rapid Transitions in Precipitation Extremes</b> <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>
1:50 PM	Panel Discussion: Perspectives from Managing Transitions between Precipitation Extremes <ul style="list-style-type: none"> <li>● Laura Edwards: <i>South Dakota State Climatologist, South Dakota State University Extension</i></li> <li>● Mark Junker: <i>Tribal Response Coordinator, Sac and Fox Nation of Missouri Environmental Department</i></li> <li>● John Remus: <i>Chief, Missouri River Basin Water Management Division, U.S. Army Corps of Engineers, Northwestern Division</i></li> </ul>	

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Time (CT)	Topic	Who
2:35 PM	Group Discussion: <i>Rapid Transitions in Precipitation Extremes</i>	
2:50 PM	Break ( <i>snacks/drinks provided</i> )	
<b>Session 4: Drought Assessment in a Changing Climate</b> <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	<b>Happy Hour - Hosted by JEO Consulting Group</b> <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
<b>Session 5: Drought Planning &amp; Resilience</b>		
<b>State and Regional Drought Planning and Resilience</b> <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>
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>

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

Time (CT)	Topic	Who
9:15 AM	Upper Mississippi River Basin Association Climate and Drought Resilience	Kirsten Wallace <i>Executive Director, Upper Mississippi River Basin Association (UMRBA)</i>
<b>Federal-Level Drought Resilience Efforts</b> <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	<b>Federal Panel</b> <ul style="list-style-type: none"> <li>● Joe Chandler: <i>Lead Mitigation Planner, FEMA Region 7</i></li> <li>● Rob Lawson: <i>Nebraska State Conservationist, USDA Natural Resources Conservation Service (NRCS)</i></li> <li>● Sheri Looper: <i>Drought Program Coordinator, U.S. Bureau of Reclamation</i></li> <li>● Jason Daniels: <i>Lead Region Coordinator for the Office of Water, Environmental Protection Agency Region 7 Water Division</i></li> </ul>	
10:35 AM	Break <i>Snacks/drinks provided</i>	
10:50 AM	Group Discussion: <i>Drought Planning and Resilience</i>	
<b>Session 6: Meeting Takeaways</b> <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.*