

National Drought Mitigation Center overview, Condition Monitoring Observer Reports update

Kelly Helm Smith (for Mark Svoboda)

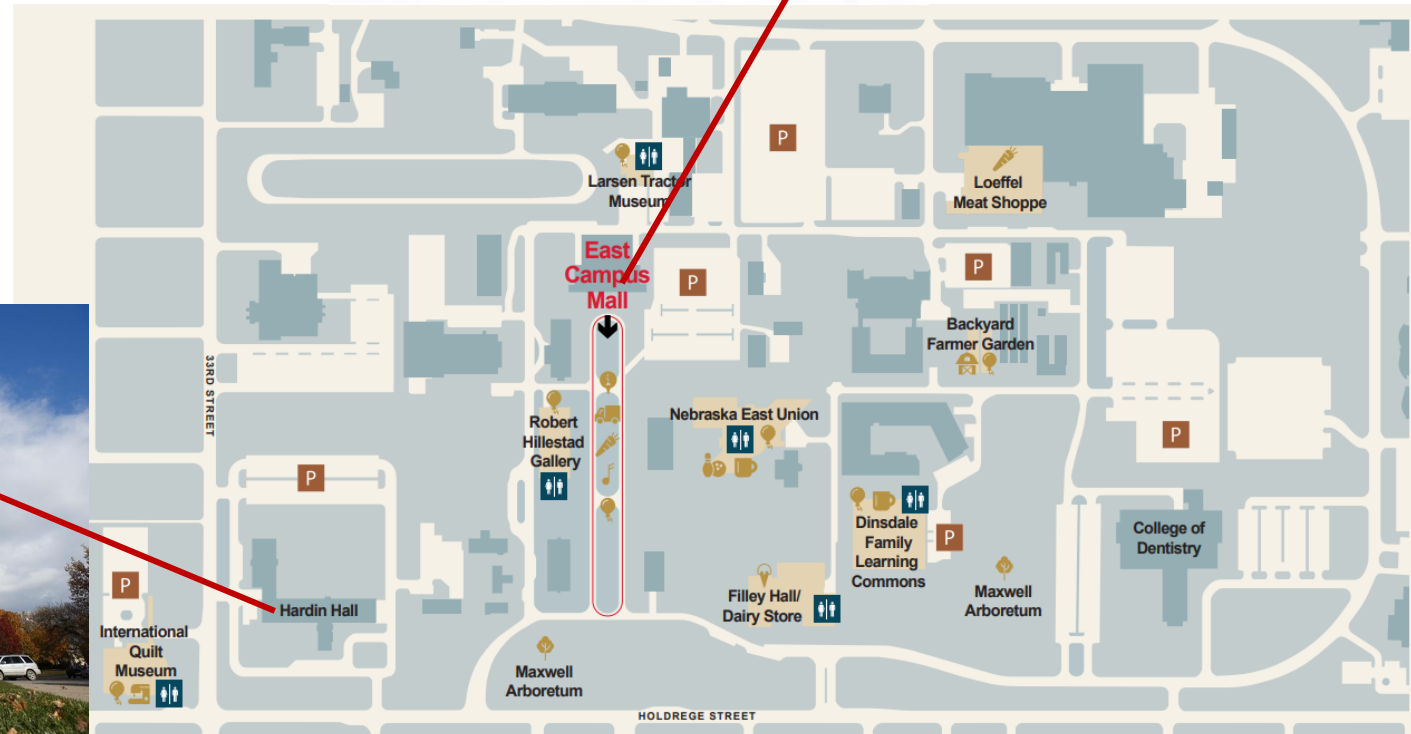
Midwest & Missouri River Basin
Drought Early Warning System Partners Meeting

Omaha, Nebraska, October 13, 2022



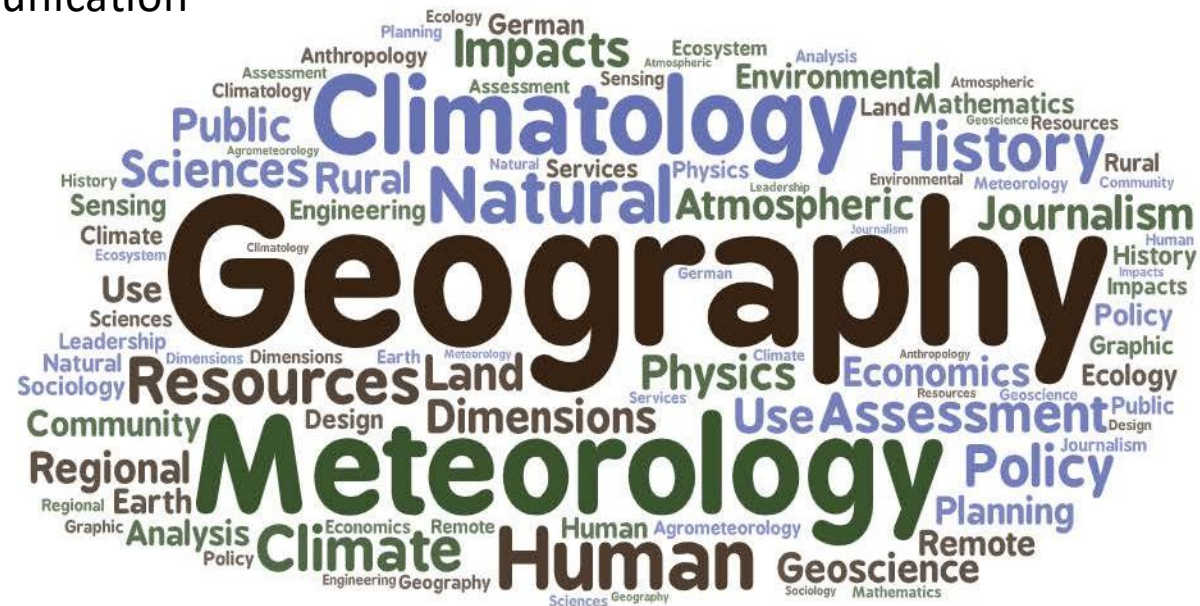
History

- Founded in 1995 at the University of Nebraska-Lincoln, building on the International Drought Information Center
- 1995: 5 staff members
- 2022: 20-30 faculty, staff and students

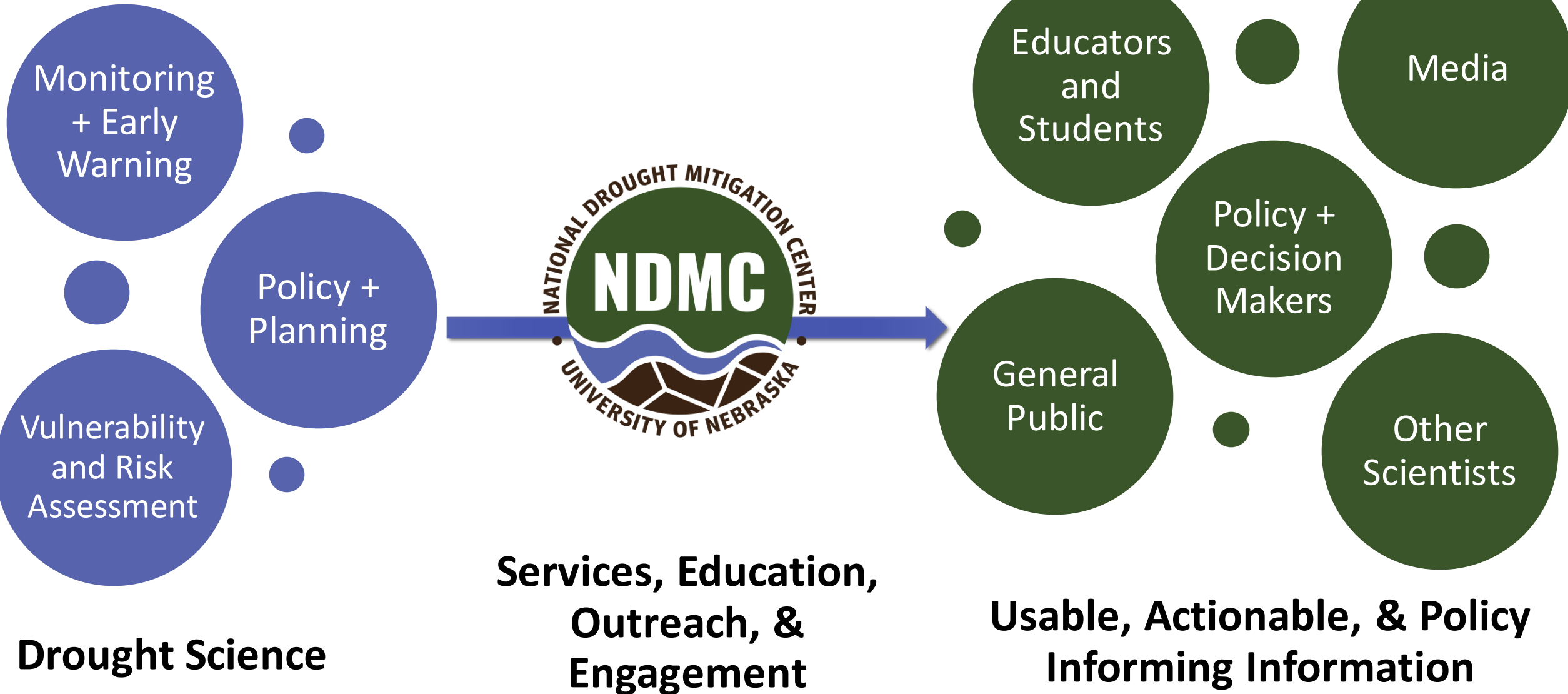


About Us

- Interdisciplinary, 20-25 faculty, staff and students
- Climatology, meteorology, geography
- GIS, IT, web design & development
- Rural sociology, anthropology, planning, environmental education, human dimensions, public participation
- History, journalism, science communication



NDMC is a “boundary organization”



Drought Science

**Services, Education,
Outreach, &
Engagement**

**Usable, Actionable, & Policy
Informing Information**

Drought Planning: The Big Questions



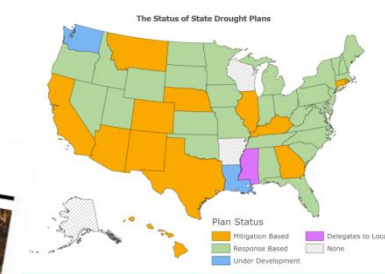
NDMC supports planning at all scales



Nation



Basin



Tribal/
State

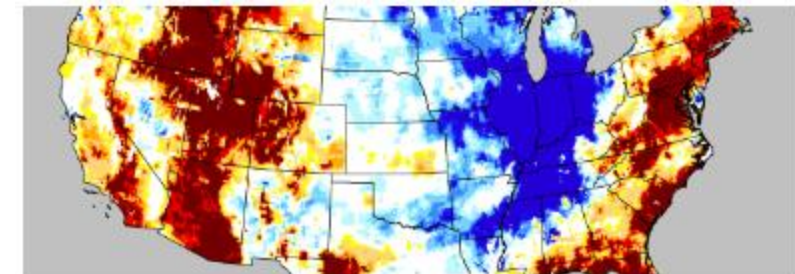
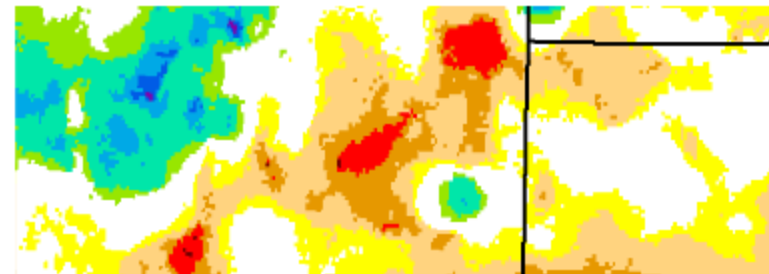
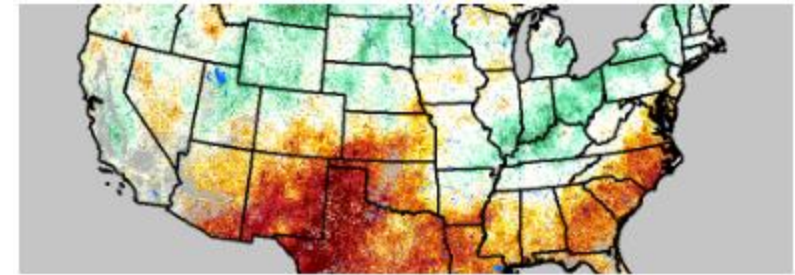
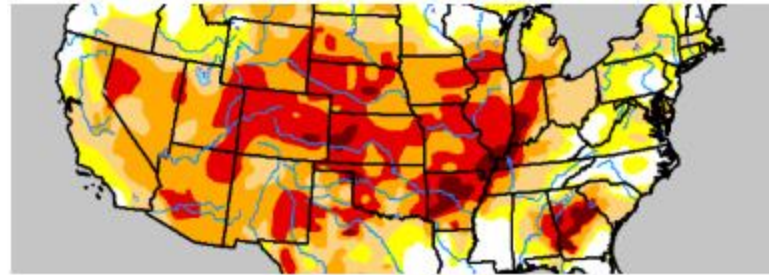
Community



Individual

Drought Monitoring Tools

How will you know you are in drought?



<https://drought.unl.edu/Monitoring/DroughtMonitoringTools.aspx>

Drought Impacts Toolkit

droughtimpacts.unl.edu

What do you want to protect?
What impacts do you want to prevent?

The screenshot displays the 'Drought Impacts Multi-Tool' interface. At the top, there are navigation tabs: 'Multi-Tool Dashboard', 'Drought Impact Reporter', 'CMOR', 'Visual Drought Atlas', 'Media Drought Index & News', 'Drought Tweets', and 'CoCoRaHS Conditions'. The 'Multi-Tool Dashboard' is active.

Filter Options:

- Select a Date Range: Predefined (selected), Calendar
- Past 7 Days (selected)
- Past 30 Days
- Year to Date
- Period of Record
- Reset

Select State: No State Selected

Select State for DSCI Chart: 50 US States and D.C.

Select County: Select a State First

CMOR Reports with Photos: Show All

Main Map: A map of the United States showing drought severity. A legend on the right indicates: Severely Dry (dark red), Moderately Dry (red), Mildly Dry (orange), Near Normal (grey), Mildly Wet (light blue), Moderately Wet (blue), Severely Wet (dark blue), and No Data (white). The map shows a high concentration of red and dark red markers in the central and eastern US.

Condition Monitoring Observer Reports (CMOR): A bar chart showing the number of reports from Oct 5 to Oct 11. The y-axis is 'Number of reports' (0-60). The bars show approximately 18 reports on Oct 5, 55 on Oct 6, 50 on Oct 7, 25 on Oct 8, 25 on Oct 9, 55 on Oct 10, and 35 on Oct 11.

Drought Severity and Coverage Index (DSCI): A line chart showing DSCI from 2006 to 2022. The y-axis is 'DSCI' (0-600). The chart shows a relatively low and stable DSCI value (around 100) until around 2012, after which it shows a significant increase, peaking near 600 in 2022.

Map Legend:

CMOR Reports 2018 - Yesterday

How Dry or Wet is it?

- Severely Dry
- Moderately Dry
- Mildly Dry
- Near Normal
- Mildly Wet
- Moderately Wet
- Severely Wet
- No Data

CoCoRaHS: Map legend, About

1 of 267

Display limited to 2,000 impacts in order of most recent. Displayed impacts correspond to filter selections.

CMOR Reports

State/Territory: AR
County: Fulton

Date: 10/11/2022

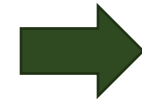
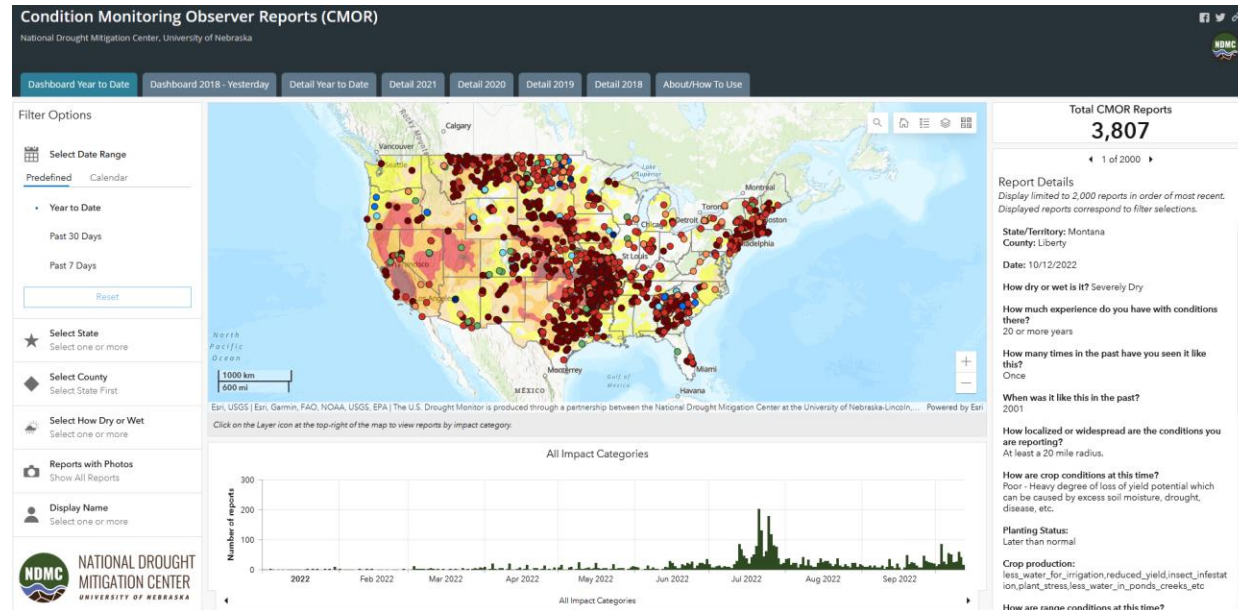
How dry or wet is it? Severely Dry

How much experience do you have with conditions there? 10_20_years

Click on left or right arrows below to scroll through different data sources.

CMOR

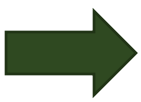
Condition Monitoring Observer Reports (CMOR) help us “see more” drought



U.S. Drought Monitor authors

State officials

Public





drought.unl.edu



ndmc@unl.edu



[@droughtcenter](https://twitter.com/droughtcenter)



[/droughtcenter](https://facebook.com/droughtcenter)

Questions, comments?
Kelly Helm Smith, ksmith2@unl.edu

