National Drought Mitigation Center

Founded in 1995 by Dr. Don Wilhite at the University of Nebraska-Lincoln.

*Mission:* To lessen societal vulnerability to drought by promoting planning and the adoption of appropriate risk management techniques.
Percent Area of the United States in Moderate to Extreme Drought

January 1895–February 2010

Based on data from the National Climatic Data Center/NOAA
Primary focus of the NDMC.
NDMC Program Objectives

- Improve the science of drought monitoring, planning, and mitigation.
- Build awareness of drought and its impacts on society and the environment, and how human actions affect our vulnerability to drought.
- Focus the attention of policy makers on the importance of drought policy and planning in the wise stewardship of natural resources.

RESEARCH, OUTREACH, AND TRAINING
NDMC Overview

NDMC Director (Mike Hayes)

Monitoring Program Area (Mark Svoboda)

Planning and Social Science Program Area (Cody Knutson)

GISScience Program Area (Brian Wardlow)

23 faculty & staff
4 graduate students
3 visiting international scientists

Staff backgrounds:
- Climatology
- Meteorology
- Hydrology
- Water Resources

Staff backgrounds:
- Planning
- Economics
- Public Participation
- Rural Sociology
- Anthropology
- Journalism

Staff backgrounds:
- GIS
- Remote Sensing
- Geography
- Ecology
• **UN organizations:**
  – FAO, ISDR, and CCD
• **World Meteorological Organization (WMO)**
• **US AID**
• Various regional and national drought centers
• Numerous government agencies and universities in different countries
NDMC National Collaborations

**National Integrated Drought Information System (NIDIS)**
- NIDIS Program Implementation Team, NIDIS Pilots Teams, NIDIS Portal Team, NIDIS Working Groups

- **NOAA**: RISAs, RCCs, NCDC, NWS Offices (D.C., Regional, RFCs, WFOs), CPC, ESRL/PSD etc…
- **NASA**: NASA Goddard Space Flight Center (GSFC) and Jet Propulsion Laboratory (JPL)
- **USDA**: NRCS National Water and Climate Center, RMA, ARS, Joint Agricultural Weather Facility, World Agricultural Outlook Board
- **USGS**: Center for Earth Resources Observation Science (EROS)
- **U.S. Army Corps of Engineers**: Institute for Water Research
- **Bureau of Reclamation**: Lower Colorado Region

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**National**
- U.S. Drought Monitor Author Group and Listserv
- North American Drought Monitor Author Group and Listserv
- National Phenology Network
- National Conference of State Legislatures

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**Other**
- Researchers at Universities: Colorado, Arizona, Iowa State, Missouri, Kansas, Indiana, Purdue, Texas A&M, South Dakota State, Illinois, Oklahoma, New Mexico, UNK, Augustana, Colorado State, UMKC, South Carolina, Washington, Wisconsin, Dartmouth, California-Riverside, Scripps Research Institute, Center for Research on the Changing Earth System
- States/Tribes: Hualapai, Hawaii, Colorado, Missouri, Nebraska, Arizona, Illinois, Oklahoma
- Communities: Lincoln, NE; Kansas City, MO; Johnson County, KS; Nebraska City, NE; Decatur, IL; Ada, Cordell, Norman, OK
- Nebraska Natural Resources Districts
UN organizations:
- FAO, ISDR, and CCD
- World Meteorological Organization
- US AID
- Various regional and national drought centers
- Numerous government agencies and universities in different countries

Czech Republic • Italy • Switzerland • Spain • Slovenia • European Union • Southern Europe/Northern Africa • Morocco • Tunisia • Mali • Ethiopia • Mozambique • Namibia • Egypt • Saudi Arabia • Jordan • India • Japan • China • South Korea • Vietnam and Cambodia • Australia • Brazil • Chile • Mexico • Canada • United States
Operational Drought Tools at the NDMC

U.S. Drought Monitor

Drought Impact Reporter (DIR)

VegDRI

U.S. Drought Monitor
Decision Support System

Drought Atlas

Vegetation Outlook (VegOut)
Workshop Objectives

1. Introduce new drought tools developed in partnership with USDA RMA.

2. Obtain feedback on the utility and possible applications of these tools in Idaho and the surrounding region.

3. Learn about local drought information needs and issues.