

From Montana to Dresden... Drought Risk Management Around the World



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From Montana to Dresden, Ohio...

Drought Risk Management in the U.S.



IDMP: 3 Key “Pillars” of a National Drought Policy



The diagram is shaped like a classical building. It has a blue triangular pediment at the top containing the title. Below the pediment is a thin blue horizontal line. The main body of the building consists of three vertical rectangular pillars of different colors: green on the left, orange in the center, and grey on the right. Each pillar contains text describing a key pillar of the policy. At the base of the pillars is another thin blue horizontal line, followed by a light blue rectangular box containing the overall purpose of the policy. The bottom of the slide features a background image of cracked, dry earth.

Successful Drought Policy

Monitoring &
Early Warning

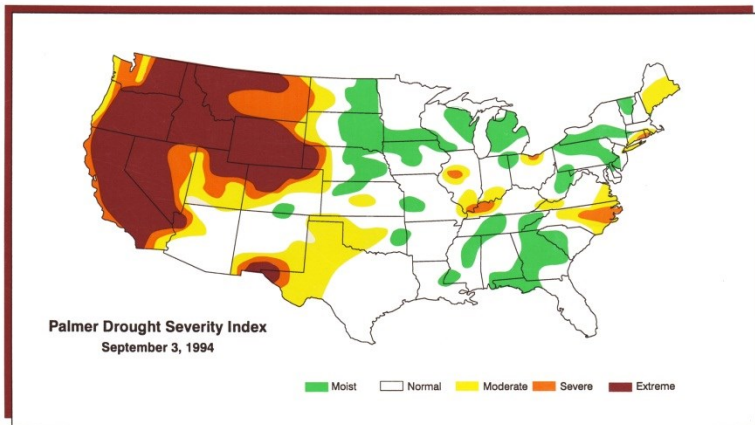
Vulnerability
& Impact
Assessment

Mitigation &
Response

Overall purpose: preparedness planning based on these pillars of risk reduction.

Proceedings of the Conference

Drought Management in a Changing West:
New Directions for Water Policy



Edited by

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THE MONTANA DROUGHT RESPONSE PLAN

1994

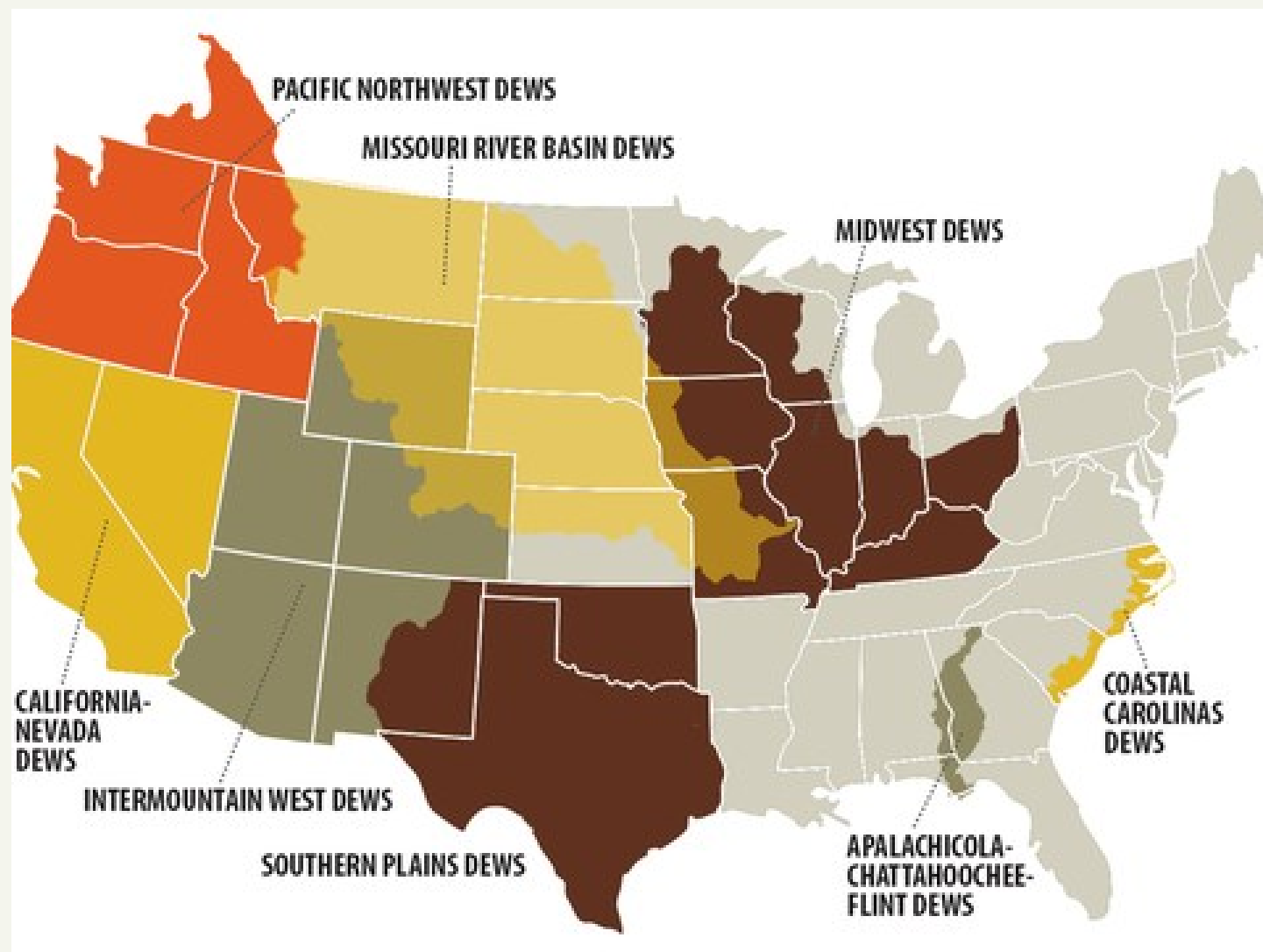
1995

Montana Drought Resilient Communities 2016 Course Outline

- **Where have you been?**
 - February 23: Drought Planning and the Missouri Headwaters
 - March 22: Understanding Water, Climate and Drought in the Community
- **Where are you now?**
 - April 12: Vulnerability Assessment
- **Where are you going?**
 - May 3: Developing Response and Mitigation Plans
 - May 24: Drought Communication and Outreach in the Community

Partnership: MTDNR, NDRP, EPA, NIDIS, NDMC

NIDIS Regional Drought Early Warning Systems



NIDIS Partnerships: Federal, State, Tribes, Private, Universities, ...



Monitoring & Forecasting



Drought Early Warning Information Systems

Communication and Outreach



Engaging Preparedness & Adaptation



NIDIS/NDMC Partnership

The Drought Risk Management Research Center provides **innovations in research and information delivery** to **improve drought risk management and resilience** across the United States.

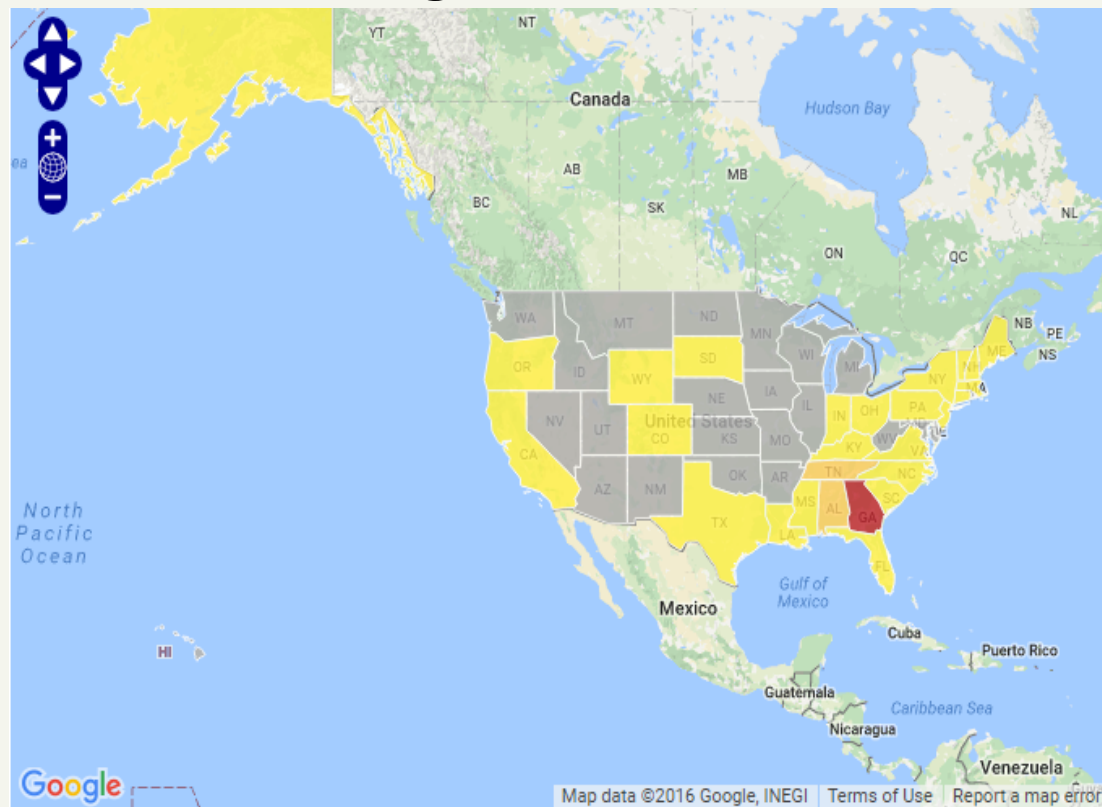
Successful Drought Policy

Monitoring
& Early
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Mitigation
&
Response

NDMC's Drought Impact Reporter



All States | 10-11-2016 - 11-11-2016 | |

Impact Counts

Impacts List | Page 1/24

Report Counts

Reports List | Page 1/154

County Impacts | All States

232

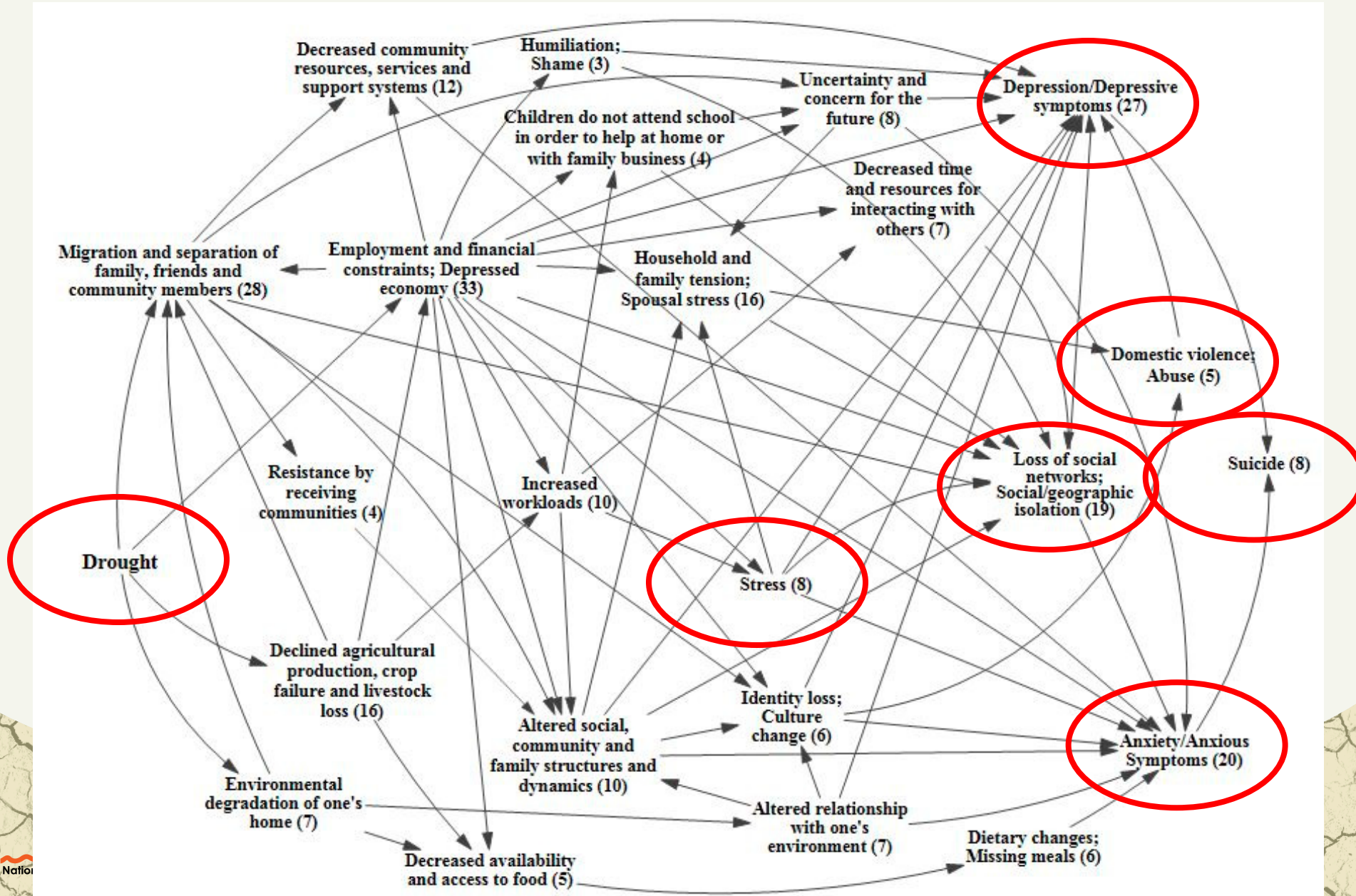
Category

General Awareness	2	Agriculture	112
Business & Industry	9	Energy	4
Fire	47	Plants & Wildlife	38
Relief, Response & Restrictions	97	Society & Public Health	31
Tourism & Recreation	12	Water Supply & Quality	93

Report Source

Media	146	User	84
Other Agency	4		

Causal processes diagram linking drought to mental health outcomes—Vins et al., 2015



Drought Exercises/Simulations

- ▣ Becoming a tool for the drought planning process
 - ▣ Potential for improved management
 - ▣ Development and evaluation
- ▣ Because droughts are relatively rare events...
 - ▣ Opportunities to test successful and unsuccessful strategies in a non-crisis mode
 - ▣ Opportunities to test various scenarios that might take place
- ▣ Identify stakeholders and decision makers critical for drought management in advance of drought event

Drought Exercises or “Tournaments”



Recent/Upcoming Events

- ▢ San Antonio/Iowa
- ▢ Kansas
 - ▣ Kansas Water Office
- ▢ Nebraska NRDs
 - ▣ Lower Platte South
 - ▣ Nemaha
 - ▣ Lower Elkhorn
 - ▣ North Platte
- ▢ North Carolina
- ▢ Nebraska Public Policy Center

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Photo: Nicole Wall, NDMC, Platte River, August 2012