

Drought Risk Management: Now What?

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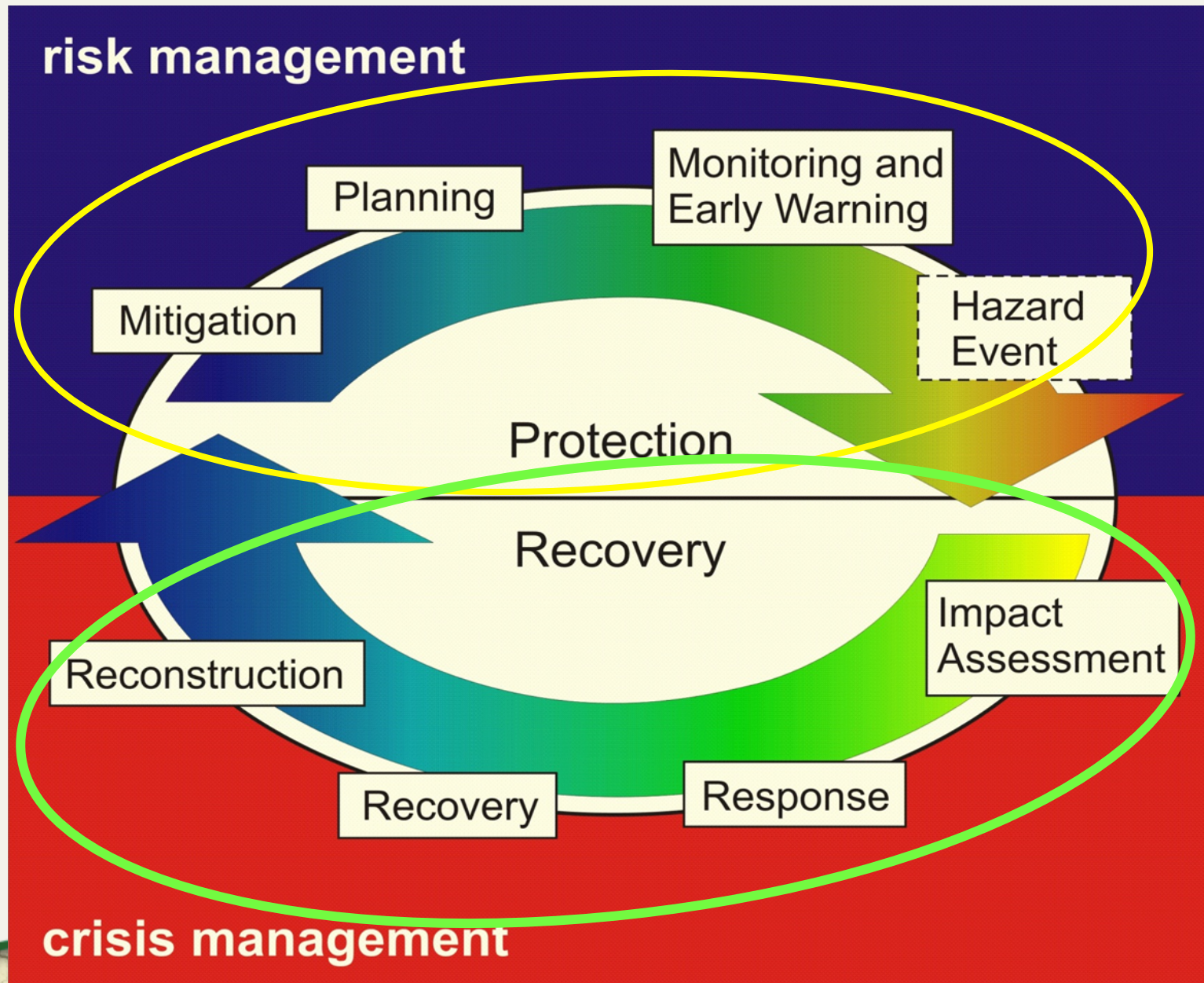
Some up front thoughts....

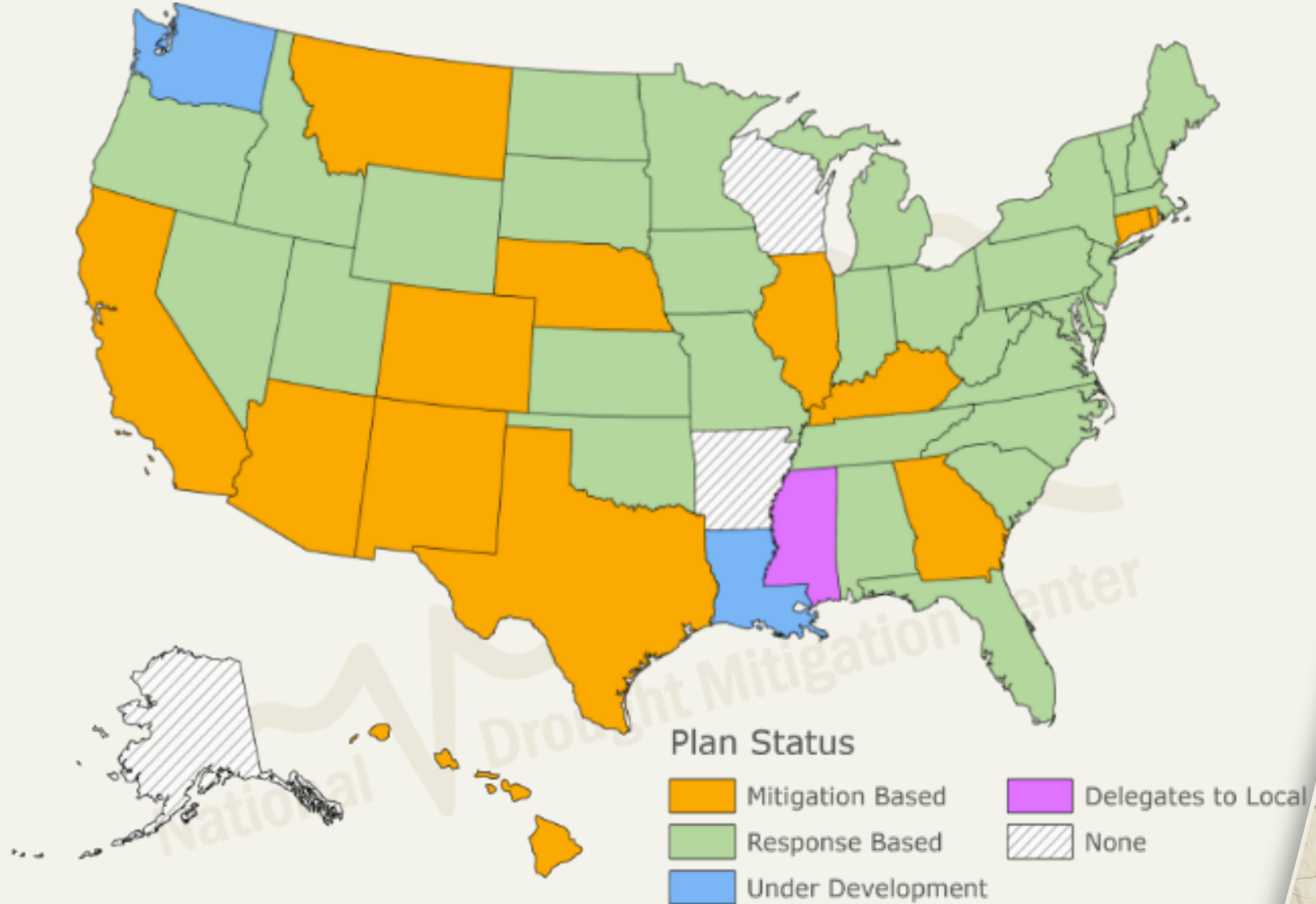


- ▶ Crisis management ***discourages self reliance*** and promotes dependence on government and donors
- ▶ Risk Management ***increases self reliance*** and ***reduces the likelihood*** of people and the environment being affected by drought
 - ***A good investment...***
- ▶ ***Monitoring is the foundation*** of risk management planning
 - ***One can not manage what is not monitored!***
- ▶ Drought needs to be ***placed into the broader context of the issues*** surrounding us: climate variability, water and food security, sustainability, and all natural hazards



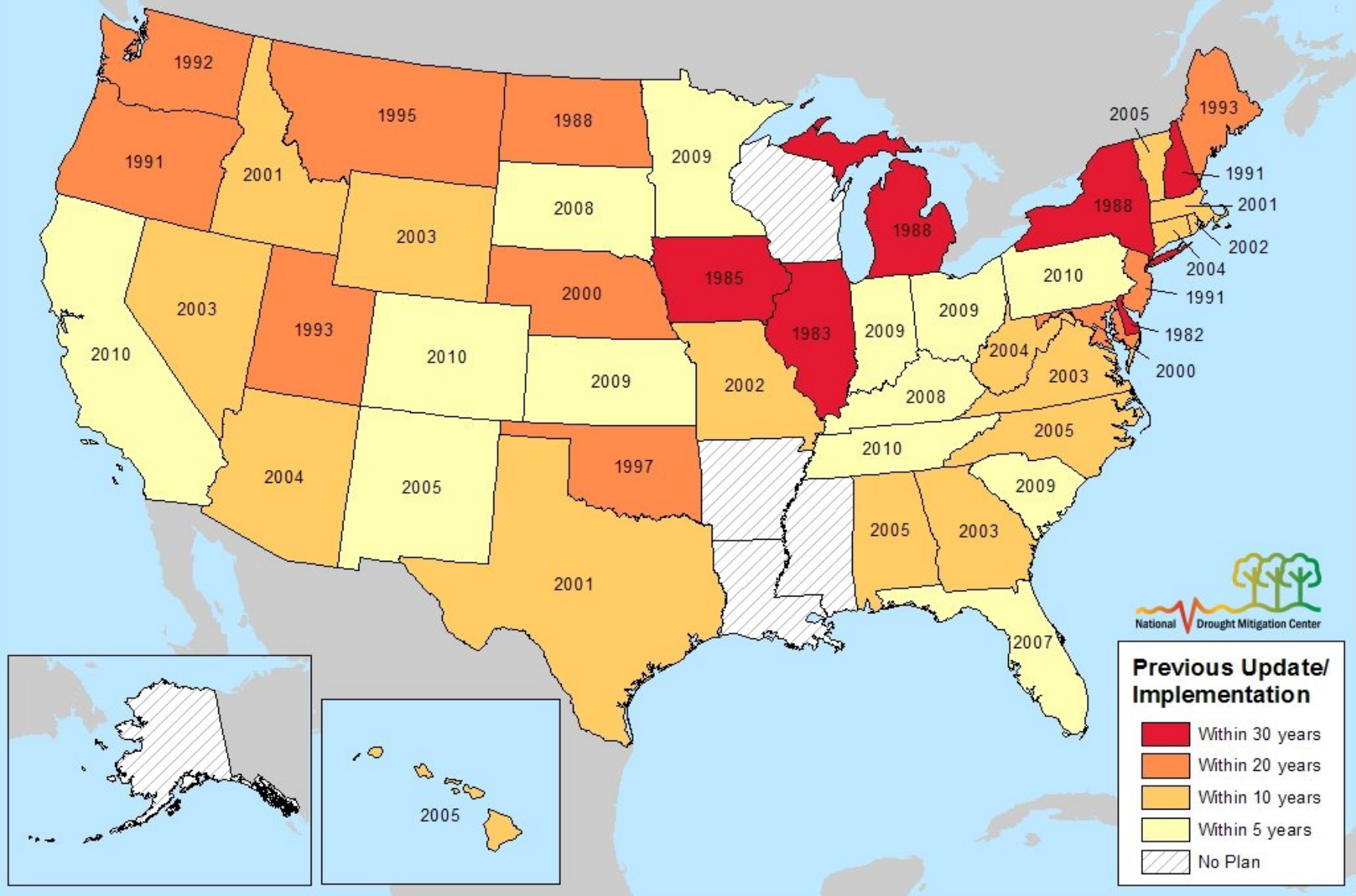
The Cycle of Disaster Management





Mitigation Based Drought Planning is defined as the identification of actions taken by individual citizens, industry, government, and others before drought occurs to mitigate impacts arising from drought.

Age of Last Plan Update or Implementation



Drought Plan Components

- **Monitoring and early warning**
 - Integrate, distill and **translate** information
 - Assess, communicate, and **trigger** action
 - **Foundation** of a drought mitigation plan
- **Vulnerability assessment**
 - Who and what is at **risk** and why?
- **Mitigation and response actions**
 - Actions/programs that **reduce risk and impacts** and enhance recovery

Most processes and plans in the past have primarily focused on monitoring and response...



Drought Planning is a Process

- It begins with a **framework**
- Develops into a **strategy**
- Yields a **plan of action**
- Which, when implemented, results in **benefits**
- Process **isn't prescribed**, rather it is organic. No two plans are exactly the same...



Drought Planning Continuum

Response Plans

Mitigation Plans



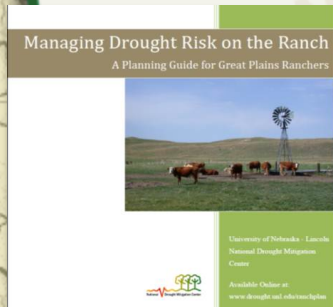
Increasing need for timely and reliable climate/water supply assessments

Increasing need for higher resolution analysis for policy decision support

Increasing need for organizational structure and communication



Planning Tools



Friday, November 22, 2013

National Drought Mitigation Center

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Drought Management Database

Introduction

This is a growing collection of information about what has been tried in responding to and preparing for drought in the United States. It's categorized by sector, that is, information of interest for farming, livestock production, water supply and quality, energy, recreation and tourism, fire, plants and wildlife (environment), and society and public health. Each sector is further divided into subsectors.

The **Full Search** option lets you search by many more criteria, including dates, type of activity (planning, response, monitoring, etc.), decision-making scope (from individual through federal government), by state, and by resource type. You can also do a text search.

Have something to contribute or recommend? Visit the **Submit a Strategy** page.

Quick Search by Sector

Farming	Livestock Production	Water Supply & Quality	Energy
Recreation/Tourism	Fire	Plants & Wildlife	Society & Public Health

Plan Status: Mitigation Based, Response Based, Under Development, Delegates to Local, None

State

Community

Recent Drought Mitigation News

- [State urges steps to prepare for drought in 2014](#)
Sep. 6, 2013
- [Drought Threat Hampers Hay Crop - Fort Smith Southwest Times Record \(AR\)](#)
Jul. 21, 2013
- [Mark Keaton: Grazing of toxic plants can be a problem - Baxter Bulletin \(AR\)](#)
Jul. 17, 2013
- [Fighting wildfires with science - CBS \(NAT\)](#)
Jul. 7, 2013
- [Nitrate spike tests Des Moines water supplies - Des Moines Register \(IA\)](#)
Jul. 1, 2013

Individual



UNIVERSITY OF
Nebraska
Lincoln



Takeaway Thoughts on Drought Risk Management



► All droughts are **LOCAL**

- Optimal to **monitor at all scales** (local/regional/national/global) (bottom-up or top-down or a combination of both)
- Need to **plan at all levels** (local/basin/regional/national) rely on this operational/real-time monitoring information system and delivery

► **Collaboration is key**

- Leverage resources
- Leverage skills/products
- Data sharing—real time (derivative and/or joint products)



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