

**Setting the Stage:  
Drought Tools Overview  
Bastrop, Texas  
February 12, 2009**

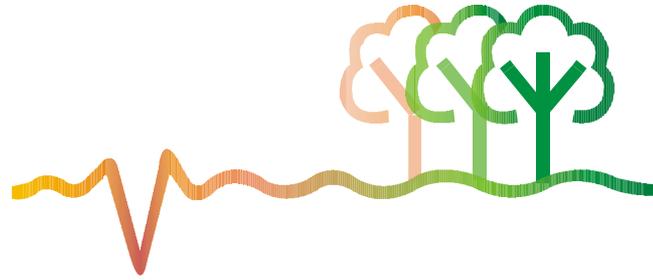
**Mark Svoboda, Climatologist  
Monitoring Program Area Leader**

National Drought Mitigation Center  
School of Natural Resources  
University of Nebraska-Lincoln

**Photo: Cimarron County, Oklahoma**

**Gary McManus, Oklahoma Climatological Survey, late June, 2008**

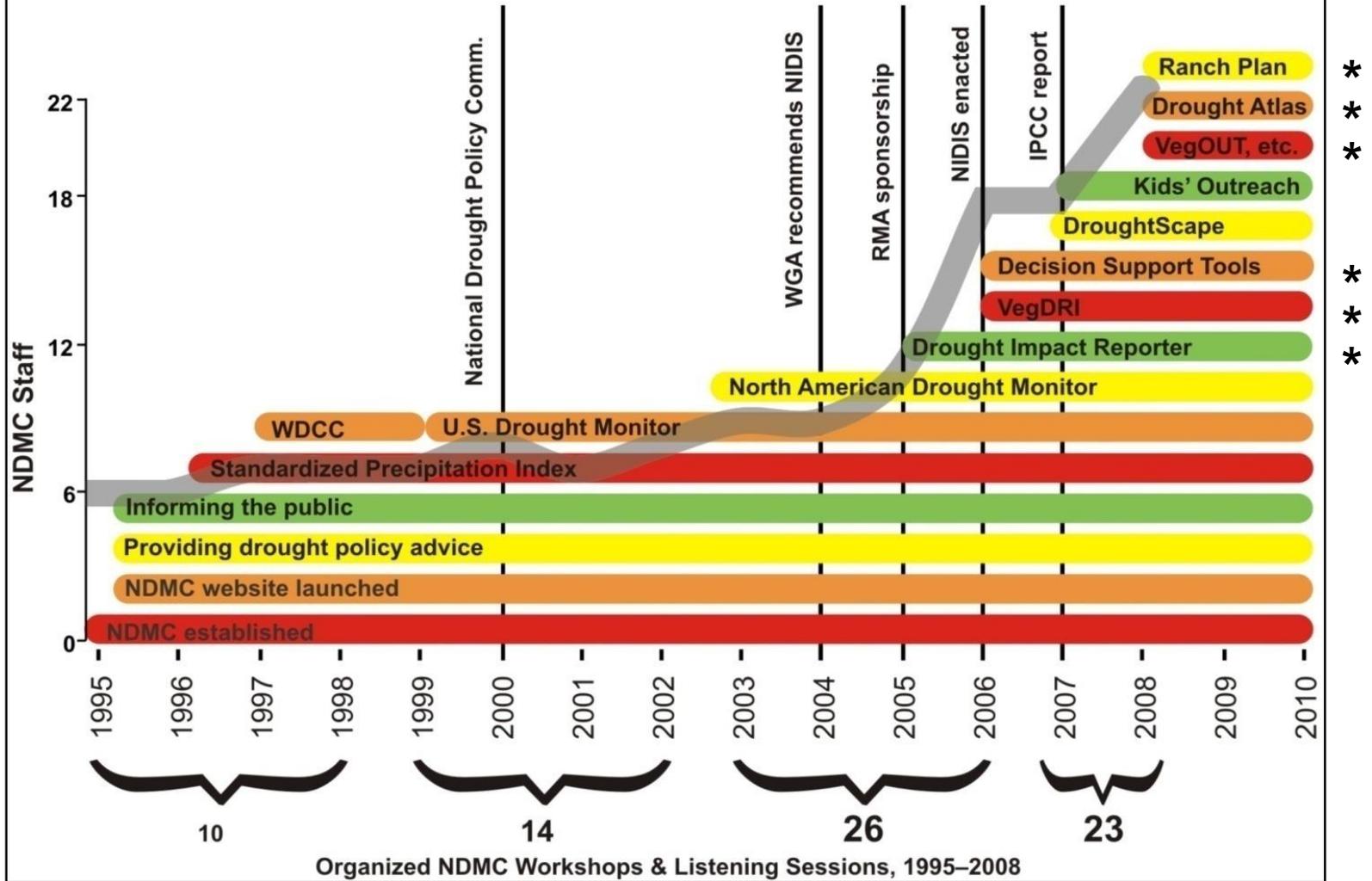
# National Drought Mitigation Center



***Founded:*** 1995 at the University of Nebraska-Lincoln

***Mission:*** To lessen societal vulnerability to drought by promoting planning and the adoption of appropriate risk management techniques.

# NDMC Products & Activities



\* RMA supported projects developing drought tools for agricultural producers.

# What are we doing here?

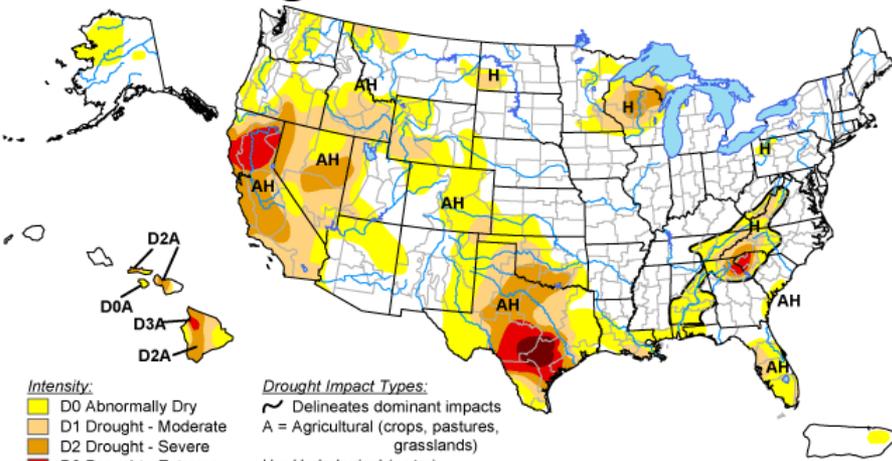


- Funding from USDA-Risk Management Agency
- NDMC partnership w/ UNL's Computer Science and Engineering Department
- How can we get feedback on our tool development to help better them and our nation's assessment capacity
- NOT a substitute for telling locals what you already know!
  - Relevant ties to policy at various levels
  - Uses by decision makers that may have a local impact
  - Uses for assessing drought in other market regions

# U.S. Drought Monitor

February 3, 2009

Valid 8 a.m. EST



**Intensity:**  
 D0 Abnormally Dry  
 D1 Drought - Moderate  
 D2 Drought - Severe  
 D3 Drought - Extreme  
 D4 Drought - Exceptional

**Drought Impact Types:**  
 ~ Delineates dominant impacts  
 A = Agricultural (crops, pastures, grasslands)  
 H = Hydrological (water)

The Drought Monitor focuses on broad-scale conditions. Local conditions may vary. See accompanying text summary for forecast statements.

<http://drought.unl.edu/dm>



Released Thursday, February 5, 2009

Author: Eric Luebbehusen, U.S. Department of Agriculture

# rought Monitor Texas

February 3, 2009

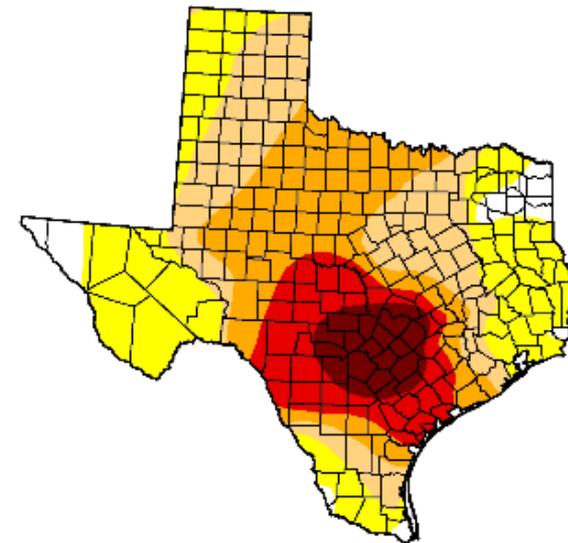
Valid 7 a.m. EST

Drought Conditions (Percent Area)

	None	D0-D4	D1-D4	D2-D4	D3-D4	D4
Current	4.6	95.4	66.8	42.6	19.6	6.7
Last Week (01/27/2009 map)	11.6	88.4	62.1	37.5	16.5	4.2
3 Months Ago (11/11/2008 map)	59.2	40.8	22.4	14.5	6.8	0.0
Start of Calendar Year (01/06/2009 map)	41.7	58.3	24.5	15.0	9.1	4.2
Start of Water Year (10/07/2008 map)	67.2	32.8	20.5	11.0	3.6	0.0
One Year Ago (02/05/2008 map)	17.1	82.9	29.4	5.9	0.0	0.0

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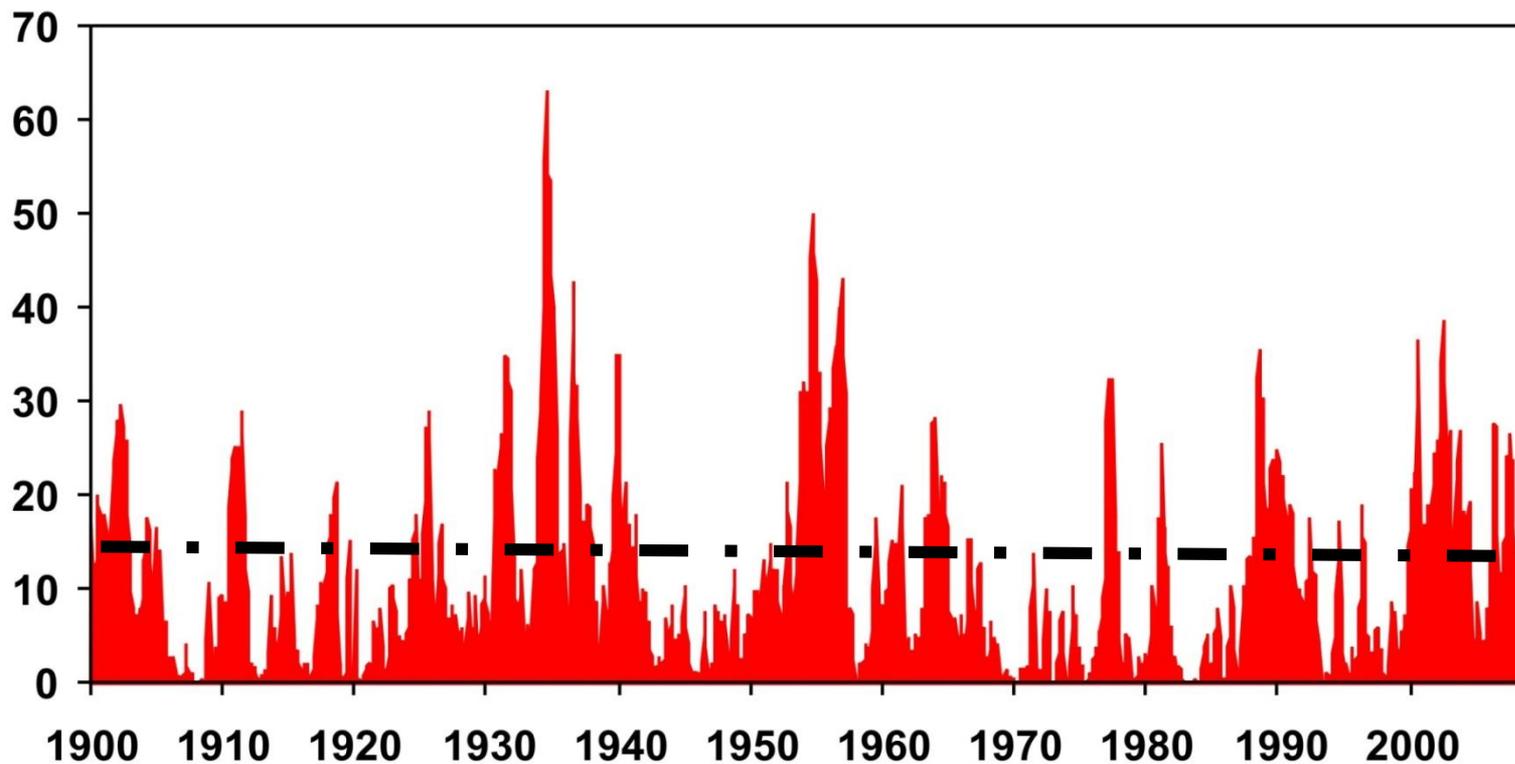


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Author: Eric Luebbehusen, U.S. Department of Agriculture

# Percent Area of the United States in Severe and Extreme Drought

January 1895–July 2008



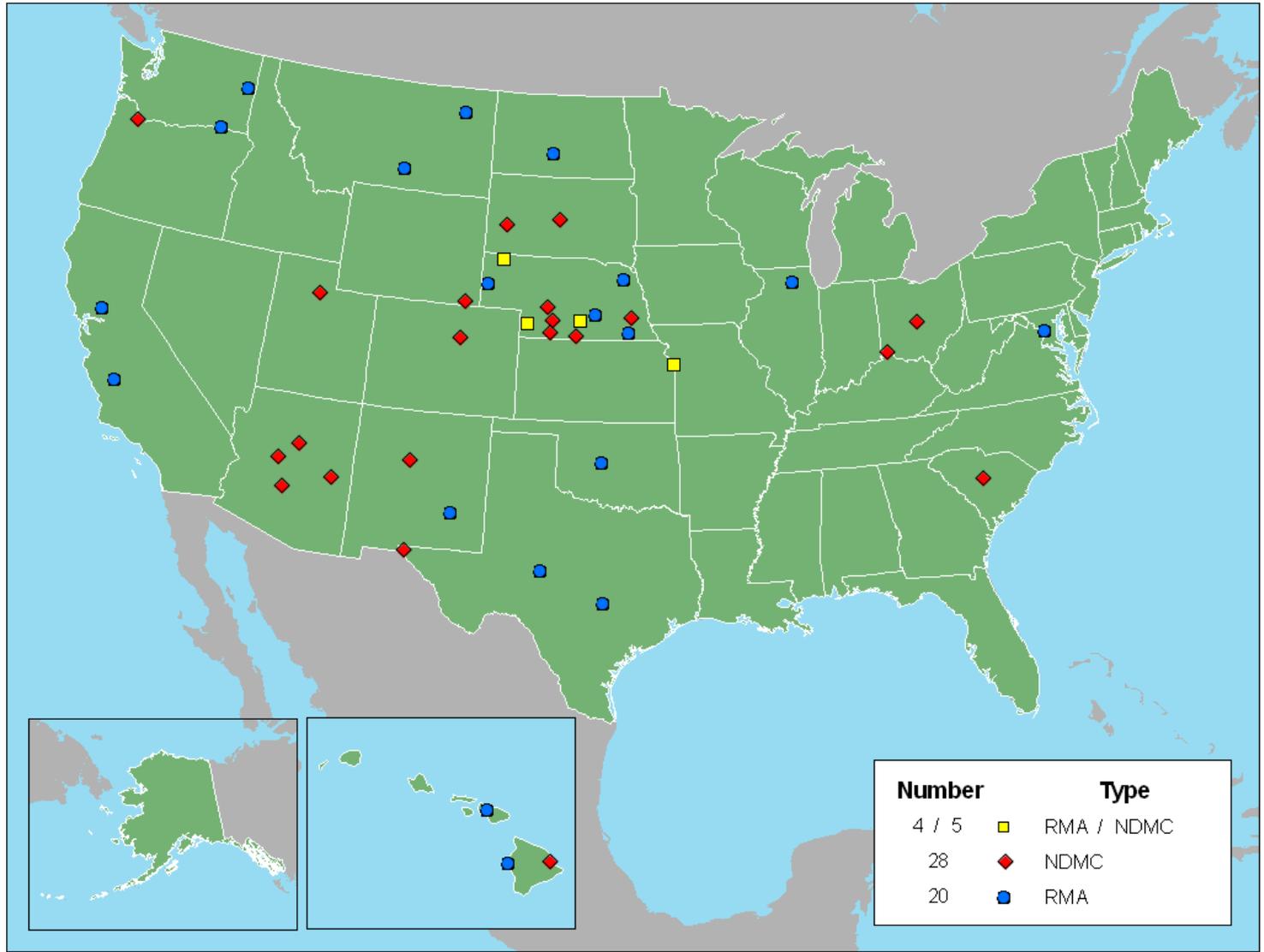
Based on data from the National Climatic Data Center/NOAA

# Workshops on Drought Management Tools



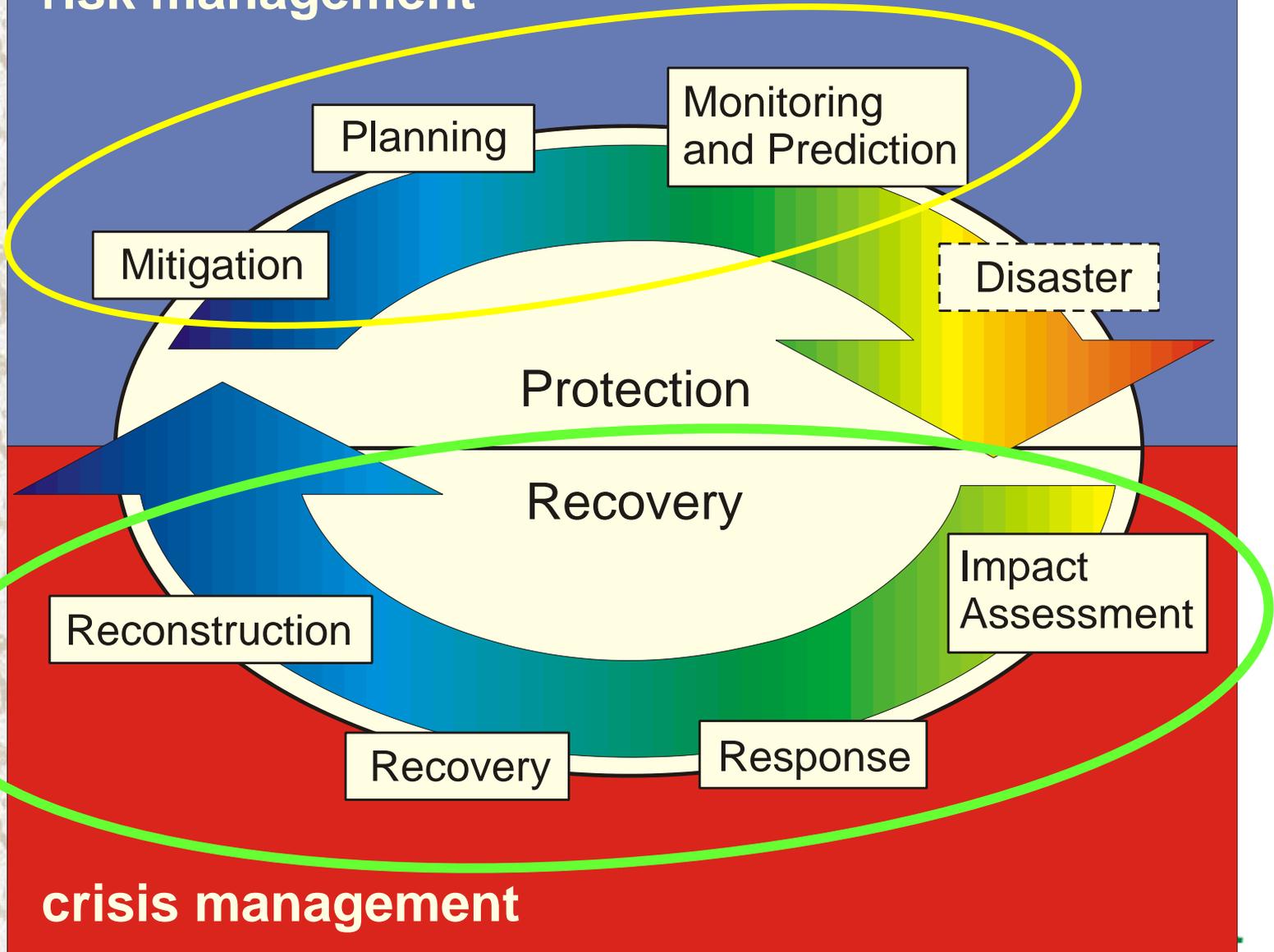
- Provide producers and advisors with easy-to-use tools and data to better understand the linkages between local climate and agricultural production
- Obtain feedback on what information or tools are needed to better understand these linkages
  - Multiple feedback approaches
- Effectively plan and prepare for drought

# NDMC Stakeholder Workshops 1996-2009



# The Cycle of Disaster Management

risk management



crisis management

# Lessons Learned



- Drought is not just a physical event
  - Vulnerability plays a major role
  - Vulnerability is dependent upon society
  - Vulnerability is dynamic

# Lessons Learned



- Drought is not just a physical event
- “Wait and see” is a natural reaction
  - Can suppress timely responses
  - Need a plan in place...with triggers/thresholds

# Lessons Learned



- Drought is not just a physical event
- “Wait and see” is a natural reaction
- Communication is critical
  - Overcome fears
  - Who’s accountable for doing what.....and when?
  - Essential for public support and buy-in

# Lessons Learned



- Drought is not just a physical event
- “Wait and see” is a natural reaction
- Communication is critical
- Planning ahead is a good investment of resources



# Managing Risk on the Ranch

[Introduction](#)[Before a Drought](#)[During a Drought](#)[After a Drought](#)[Write a Drought Plan](#)[Contacts/Resources](#)

NDMC > Ranch Plan Home

*"Here's what my dad used to tell me. He said, if you bet on dry weather in this country, you'll be right more than half the time"*

*--Nebraska rancher, 2006*

**Making** management decisions is an every day exercise for livestock and forage producers. Producers manage for things they can control and things they can't; for conditions that persist and those that change daily. All regions are prone to some form of extreme weather events such as thunderstorms, blizzards and drought. These extremes and the unknowns that seem to be around every corner, and the disastrous effects they can cause, demonstrate why long-term planning is essential to effectively manage agricultural risk.



Drought is one hazard that affects every portion of the United States sooner or later, and producers are increasingly implementing new ways to better prepare and respond to it. The information, strategies and resources on this site are designed to provide producers with information on how to incorporate management strategies to reduce the threat drought poses to livestock and forage operations.

## Our Philosophy and Purpose

- Drought is a normal part of climate...it will happen again.
- There are things you can do before, during, and after drought to reduce your risk.
- You should have both a long-term management plan and a drought response plan.
- The goal of this website is to help you become more resilient to hazards such as drought.

## How to Use This Site

The [Introduction](#) section of this site provides in-depth information on climate and historical drought occurrence; the effects drought has on livestock, grasses, and grazing management; and drought-related financial considerations.

The [Before Drought](#), [During Drought](#), and [After Drought](#) sections detail long- and short-term management strategies that can be implemented to make your operation more resilient and prepared for drought conditions.

The [Write a Drought Plan](#) section describes how appropriate strategies can be identified and included in a drought plan for your operation, and the [Contacts and Resources](#) section provides examples of other producers who have developed drought plans, as well as, experts and other information sources to help you better prepare for and respond to drought.

# Acknowledgements



- Lower Colorado River Authority (Bob Rose)
- NOAA-NWS Southern Region HQ (Victor Murphy)
- Brian Fuchs/Nicole Wall/Ann Fiedler (NDMC)
- McKinney Roughts staff and catering
- Most of all, you all for being here!!



**Thank You**

**Any Questions ?**

**Please contact me at:**

**Mark Svoboda**

**National Drought Mitigation Center**

**402-472-8238**

**[msvoboda2@unl.edu](mailto:msvoboda2@unl.edu)**