

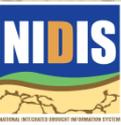
Drought Impacts in the MRB

Feb. 26, 2014, Nebraska City, Nebraska
MRB NIDIS Pilot Kickoff



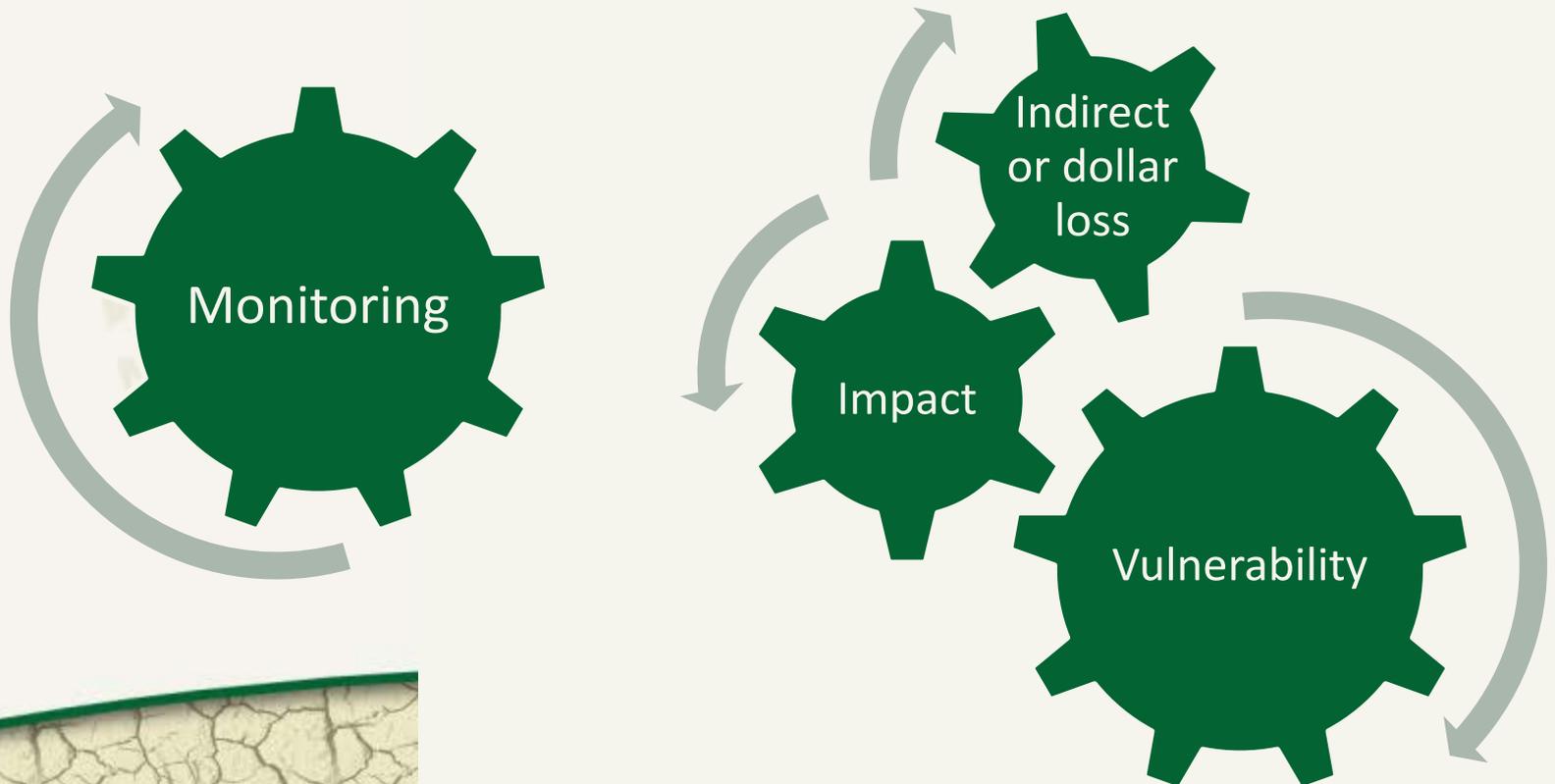
Image courtesy of the 100 Meridian Initiative: http://www.100thmeridian.org/Missouri_RBT.asp

Kelly Helm Smith
Communications and Planning Specialist
National Drought Mitigation Center
University of Nebraska-Lincoln
Lincoln, Nebraska, USA



Why track drought impacts?

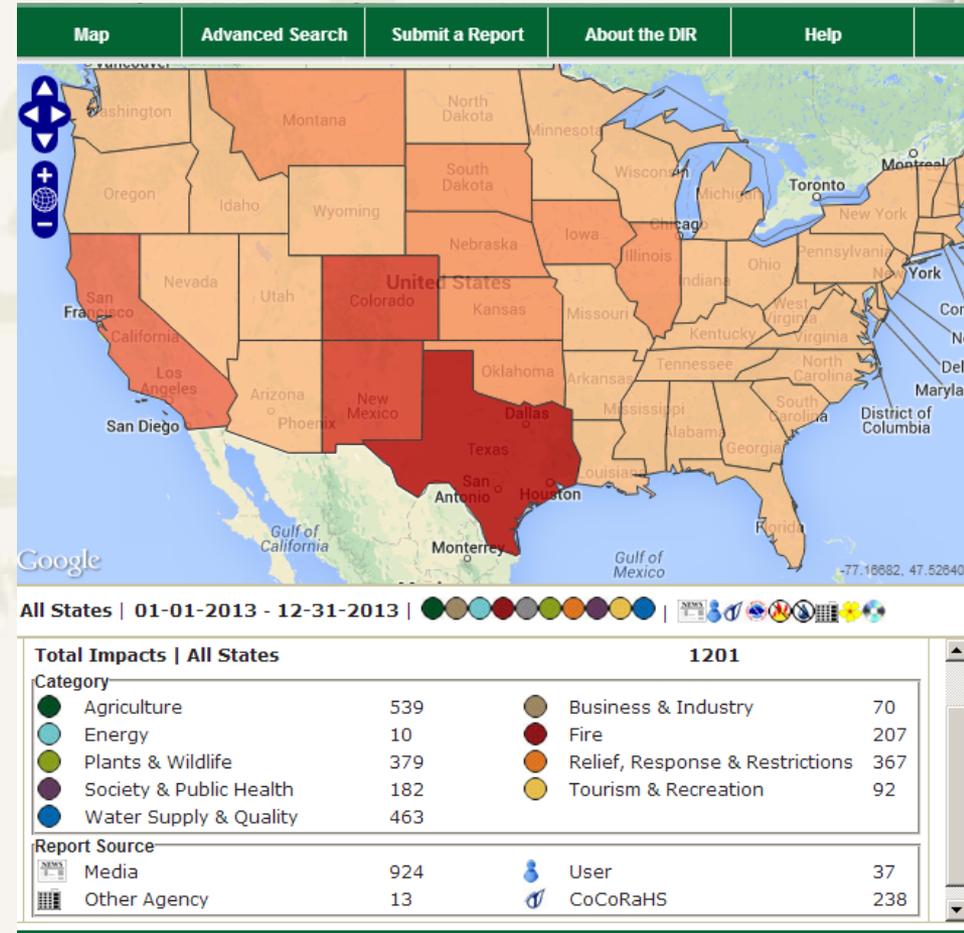
- ▶ **Response & Recovery:** To know where to direct relief.
- ▶ **Mitigation & Recovery:** Impacts point to underlying vulnerability.



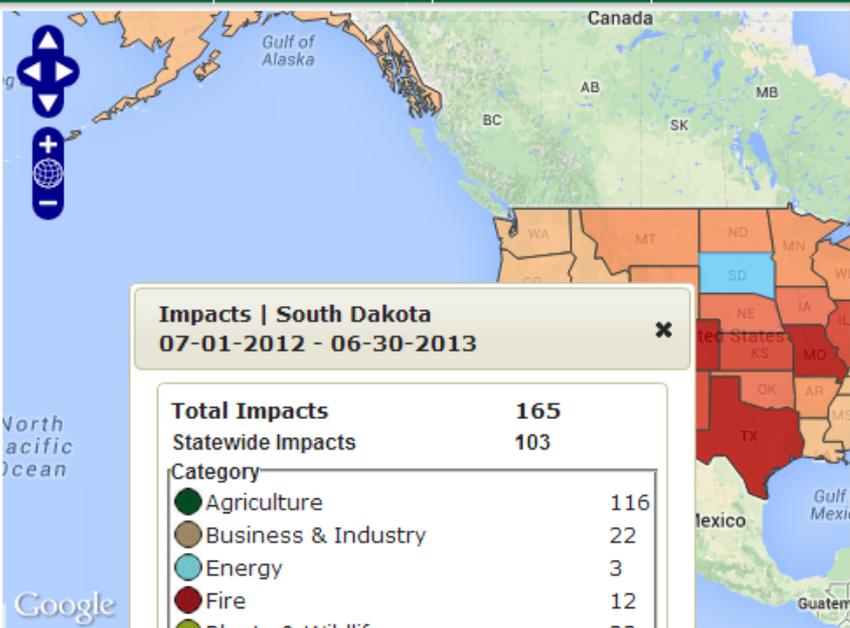
The Drought Impact Reporter

<http://droughtreporter.unl.edu>

- ▶ Launched in 2005 as nation's on-line archive of drought impacts
- ▶ Search by time, place, category, source, word
- ▶ Moderated at the NDMC



Impacts, 2013



Impacts | South Dakota
07-01-2012 - 06-30-2013

Total Impacts **165**
Statewide Impacts **103**

Category	
Agriculture	116
Business & Industry	22
Energy	3
Fire	12
Plants & Wildlife	23
Relief, Response & Restrictions	54
Society & Public Health	20
Tourism & Recreation	7
Water Supply & Quality	22

Report Source	
Media	139
User	2
Other Agency	14
CoCoRaHS	12

Impacts List County View

Impacts | South Dakota
07-01-2012 - 06-30-2013
Page 1 of 17

U.S. corn exports in 2012 were projected to be only 715 million bushels

STATE | ●
Duration: 01-01-2012 - 12-31-2012

No cargo ships visiting the ports of Seattle and Tacoma, Washington to pick up grain, due to Midwestern drought

STATE | ● ●
Duration: 07-01-2012 - 10-01-2013

Drought reduced grain exports in 2012 through ports of Seattle, Tacoma, Washington

STATE | ● ●
Duration: 01-01-2012 - 12-31-2012

Farmers and ranchers in 38 states who previously were forced to sell livestock due to drought have an extended period of time in which to replace the livestock and defer tax on any gains

STATE | ● ●
Duration: 09-01-2012 - 08-31-2013

U.S. chicken processors lost 4 to 5 cents per pound in late 2012

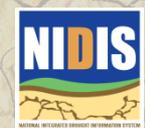
STATE | ●
Duration: 11-04-2012 - unknown

South Dakota livestock producers were urged to have their drought-affected forage tested for high nitrate levels

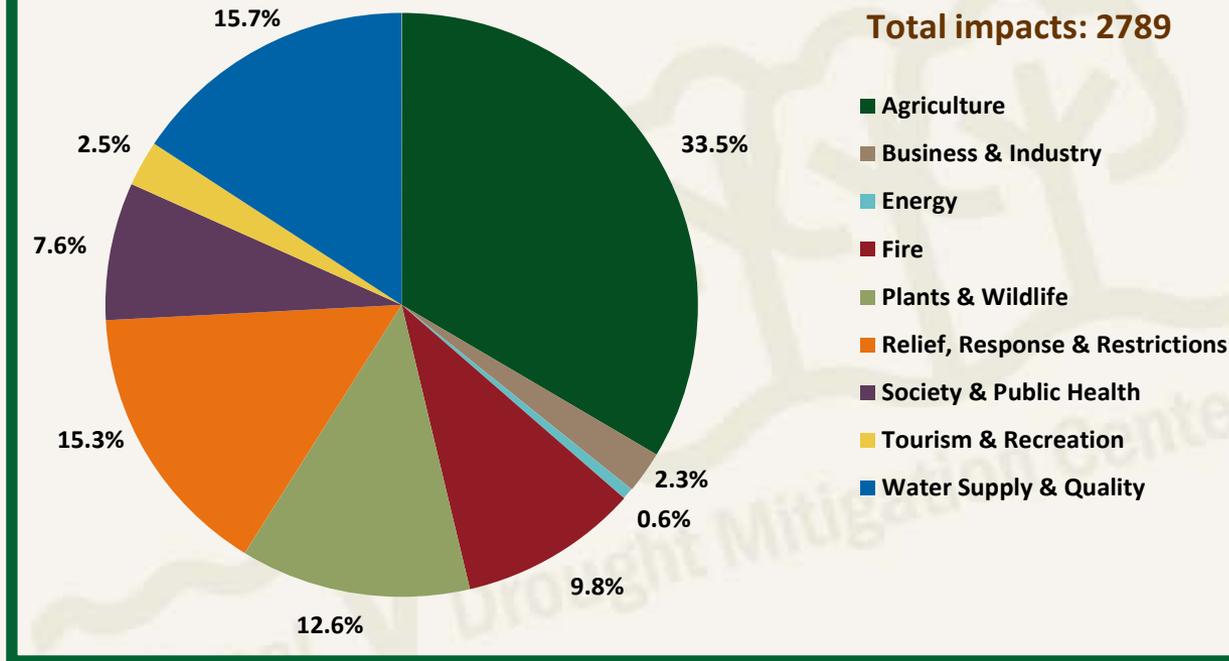
STATE | ● ●
Duration: 07-13-2012 - unknown

The 2012 drought was still being felt by popcorn buyers, sellers

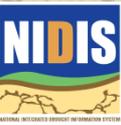
STATE | ● ●



Missouri River Basin Impacts, 1/2004-2/2014

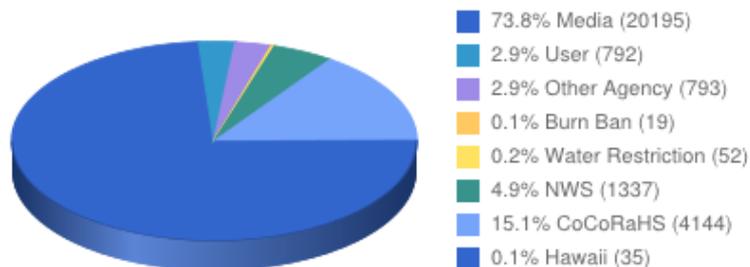


Impacts, Jan. 1, 2004-Feb. 18, 2014, for Montana, North Dakota, South Dakota, Wyoming, Nebraska, Colorado, Kansas, Iowa and Missouri

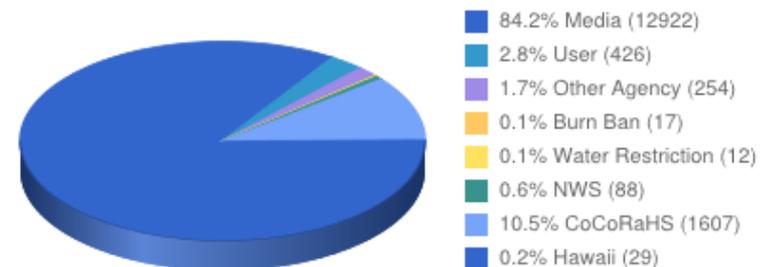


What's in the Drought Impact Reporter

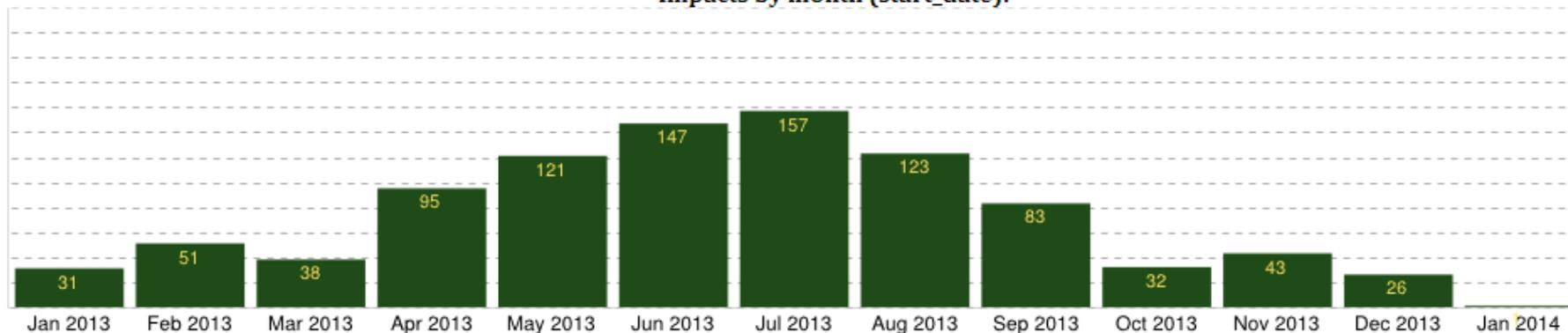
Report Composition
27,367 reports



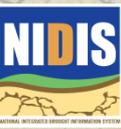
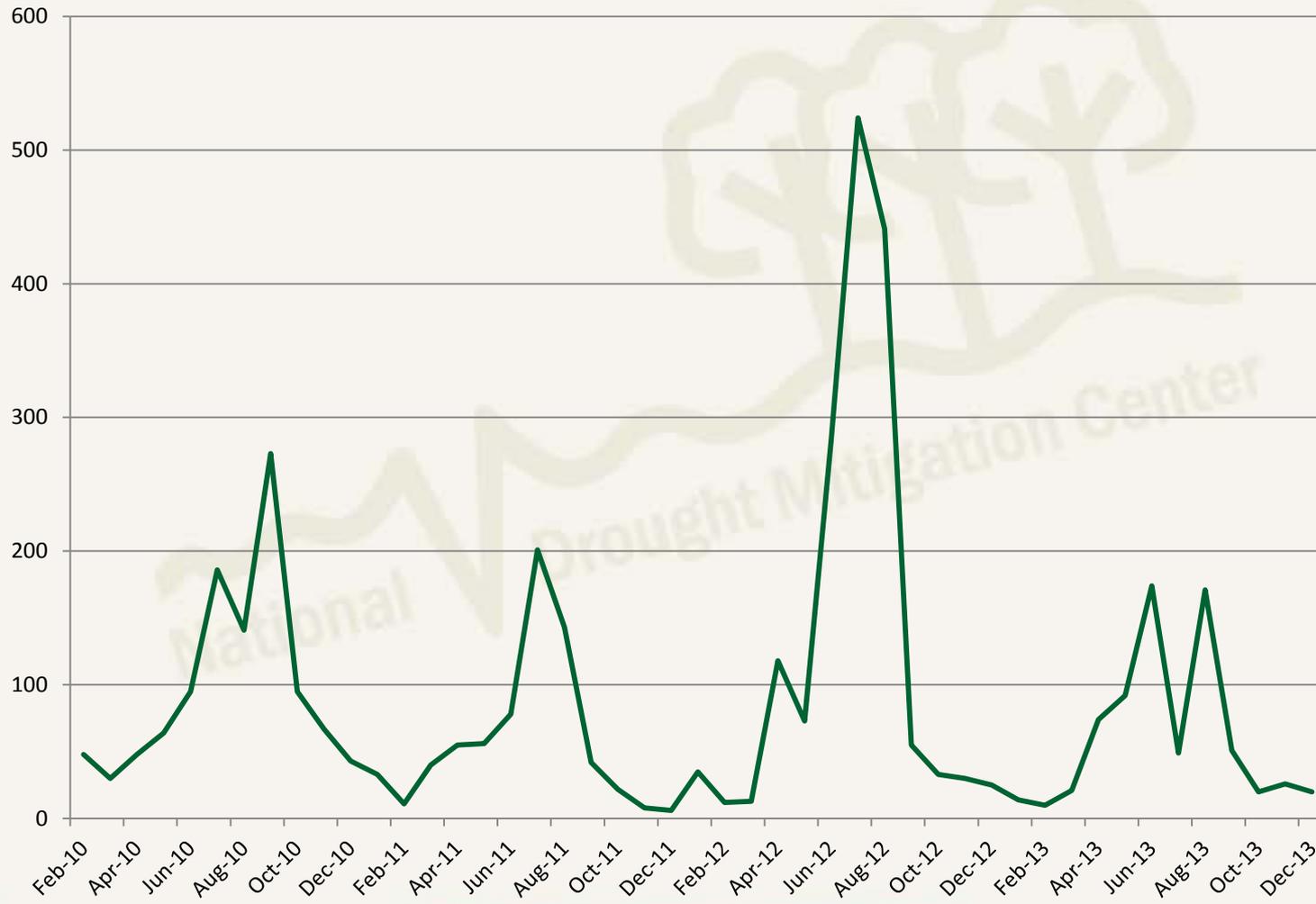
Impact Composition
17,780 impacts



Impacts by month (start_date):



CoCoRaHS reports in DIR

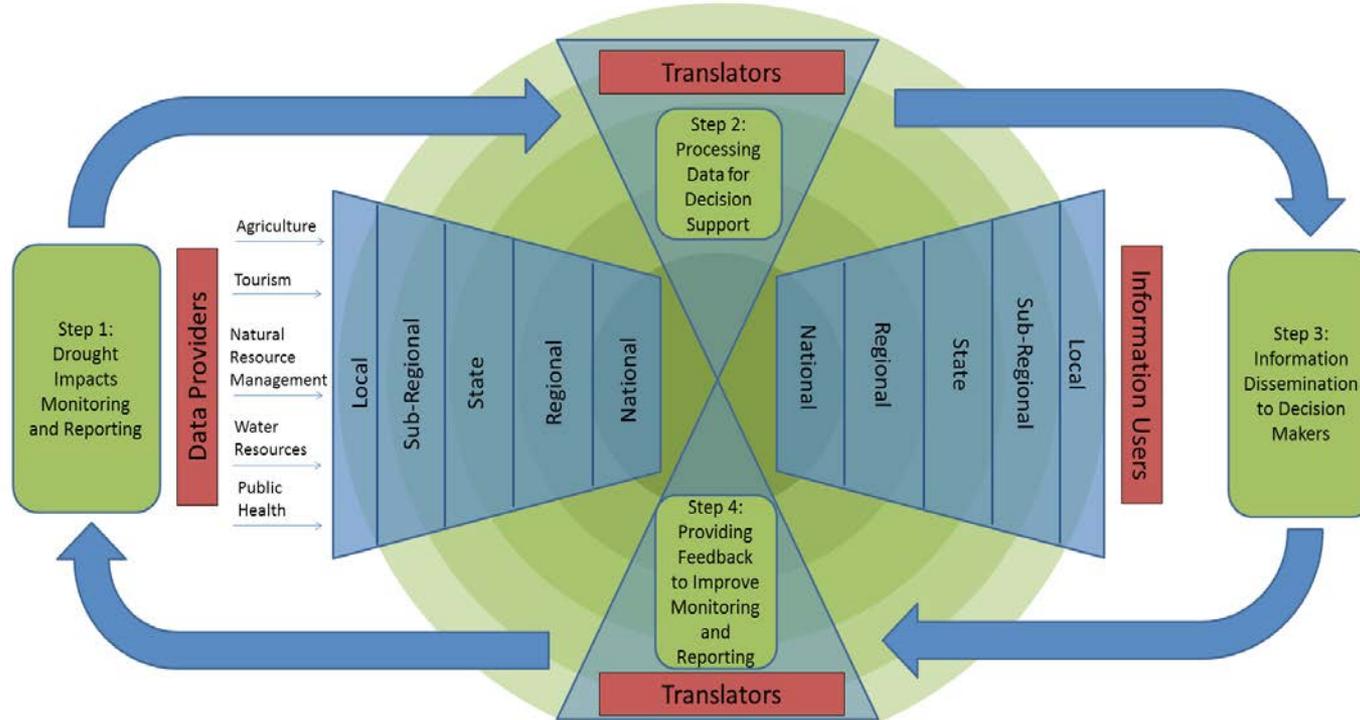


Questions & Challenges

- ▶ No units
 - 360 of 18,000 impacts have \$ value
- ▶ “Angst index”
- ▶ How to assess extent, severity
- ▶ How to quantify effects on health, habitat



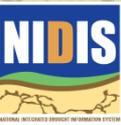
Impacts Reporting, full circle



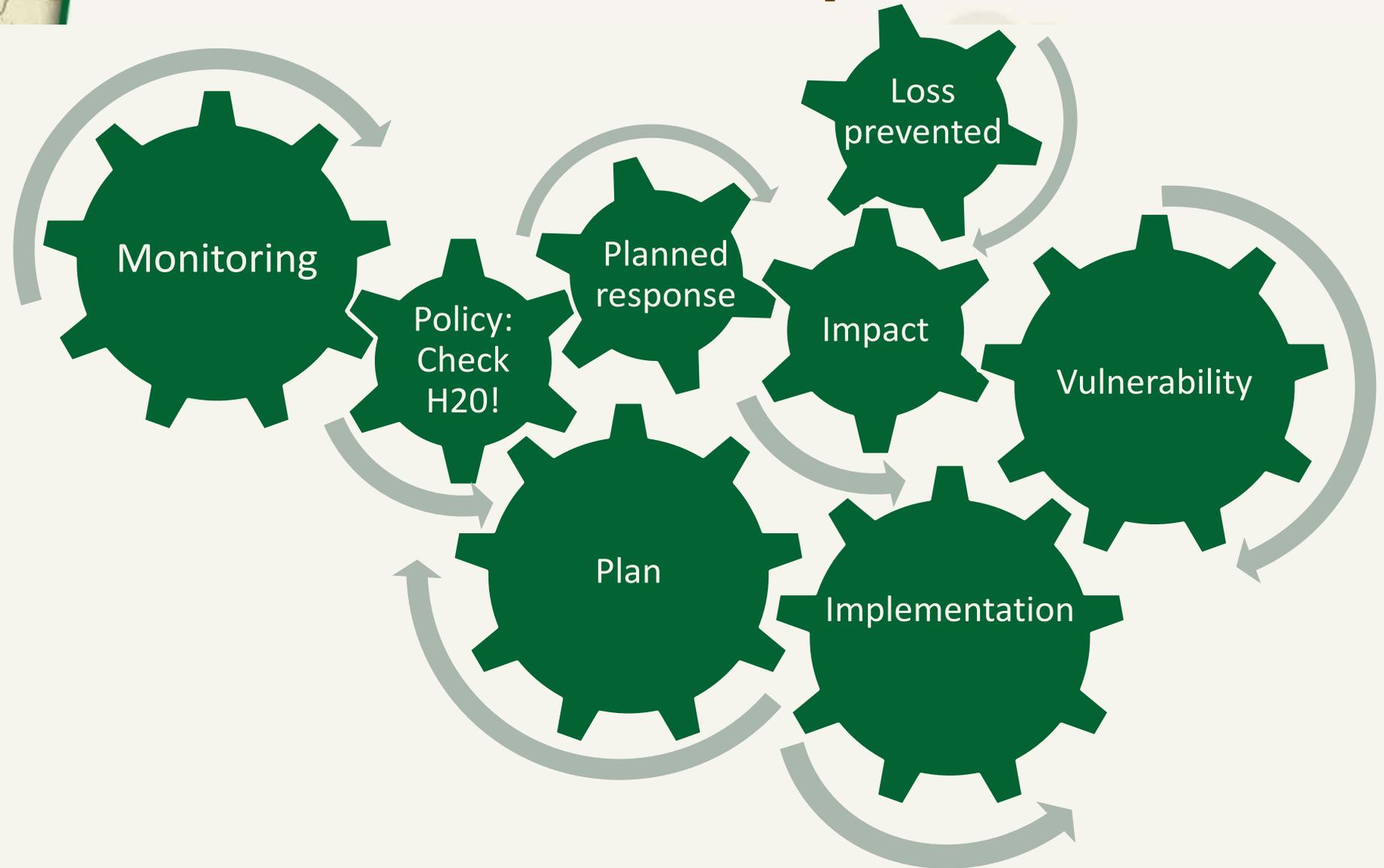
Lackstrom, K., et al. (2013). The Missing Piece: Drought Impacts Monitoring. Report from a drought impacts community of practice workshop in Tucson, AZ, March 2013.

Key Questions

- ▶ Who needs the information, and at what timescale?
 - USDM authors: up-to-the-minute
 - Policy makers: annual or other relevant cycles
- ▶ Who collects, can collect, values the data?



Metric of success: impacts avoided, loss prevented



Questions, comments?
Want to organize a network of
drought reporters?
Aggregate sector reports?

Please contact:
Kelly Helm Smith
ksmith2@unl.edu
402-472-3373

<http://droughtreporter.unl.edu>

