

# IOWA DEPARTMENT OF NATURAL RESOURCES

LEADING IOWANS IN CARING FOR OUR NATURAL RESOURCES

# **Drought Planning In Iowa**

### Drought Early Warning System Workshop

## Tim Hall, DNR Hydrology Resources Coordinator

February 9, 2016









# Drought Planning In Iowa

- Drought Planning (Reaction?)
  - Awareness
  - Governor's Proclamation
  - Allocation Prioritization



## Awareness

## <u>Collaboration</u>

- Iowa DNR
- Iowa Dept. of Ag/Land Stewardship
- Homeland Security
- National Weather Service
- USGS
- Iowa Geological Survey
- **<u>Regular Publication</u>**: Water Summary Update (WSU)





http://ia.water.usgs.gov/drought/index.html

The National Drought Monitor (NDM) indicates a few small areas along the eastern edge of lowa that are abnormally dry, totaling about 5 percent of the state. Conditions in lowa have been relatively unchanged over the past two months, and conditions in the states surrounding lowa are also free from any significant drought conditions.

#### Contacts

NORMAI

General Information	Tim.Hall@dnr.iowa.gov 515-725-8298
Drought Monitor	Harry.Hillaker@iowaagriculture.gov 515-281-8981
	Harry.Hillaker@iowaagriculture.gov 515-281-8981
Stream Flow	Daniel Christiansen, dechrist@usgs.gov 319-358-3639
	Michael.Anderson@dnr.iowa.gov 515-725-0336
Shallow Groundwater	Mike-Gannon@uiowa.edu 319-335-1581

Prepared by the lowa DNR in collaboration with the lowa Department of Agriculture and Land Stewardship, the U.S. Geological Survey, IIHR-Hydroscience and Engineering and The Iowa Homeland Security and Emergency Management Department.

Streamflow Index is a measure of the average streamflow at almost 100 locations across the state compared to average streamflow for that date at each of those sites. This provides another good indication of whether

conditions are wetter or dryer than normal. Feb-15 Mar-15 Apr-15 May-15 Jun-15 Jul-15 Aug-15



## **Governor Proclamation**

29C.6 Proclamation of disaster emergency by governor . . . the governor may:

1. After finding a disaster exists or is threatened, proclaim a state of disaster emergency.

Governor's Proclamation – July 26, 2012







# **Allocation - Prioritization**

52.10(3) Priority allocation plan . . . the department may suspend or restrict usage of water by category of use on a local or statewide basis in the following order:

a. Water conveyed across state boundaries.

b. Water used primarily for recreational or aesthetic purposes.

c. Uses of water for the irrigation of any general crop.

- d. Uses of water for the irrigation of any specialty crop.
- e. Uses of water for manufacturing or other industrial processes.
- f. Uses of water for generation of electrical power for public consumption.

g. Uses of water for livestock production.

h. Uses of water for human consumption and sanitation supplied by rural water districts, municipal water systems, or other public water supplies.

i. Uses of water for human consumption and sanitation supplied by a private water supply.



## Source of Drinking Water in Iowa





# **Allocation - Prioritization**

- Drought Planning in Iowa is a local issue
  - Not just from a policy perspective, but from a technical perspective
- It is not easy for a community to "cut off" a particular use or user
  - Technical considerations
  - Economic considerations
- Priority Allocation is Unlikely to be invoked for municipal or municipal-type systems
  - Not invoked in 1988-89, 2000-2002, 2005, or 2012 ....

Active Public Wells, Irrigations Wells and USGS Gages Ochevedan River Alluvium





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TIM HALL Hydrology Resources Coordinator



Iowa Department of Natural Resources P 515.725-8298 | F 515.725-8201 | <u>tim.hall@dnr.iowa.gov</u> WallaceStateOfficeBuilding502E9<sup>th</sup>St. | Des Moines,IA50319

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