

# **Drought Preparedness**

## **A Panel Discussion**

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Illinois State Water Survey

# Points of Emphasis

- New State Drought Plan & Illinois Drought Web-Page
- CWS Vulnerability in East-Central Illinois
- Current Climate Outlook

# Drought Response vs. Drought Preparedness

Drought Response – Actions taken *after/while* a drought occurs (problematic as to defining when the drought starts/started)

Drought Preparedness – Actions taken *prior to* the start of drought, especially with regard to insuring water resource and/or facility adequacy prior to drought occurrence

# The Illinois Drought Preparedness and Response Plan

- Updates the 1983 Drought Contingency Plan
- Reviewed and approved by the State Water Plan Task Force in October 2011
- New info meant to serve as a resource to assist communities with drought planning
- Meant to be dynamic, able to be easily updated as new info becomes available

# Illinois Drought Web-Page

- Most easily found by googling “Illinois drought”
- Contains
  - Current drought information
  - The State of Illinois “Drought Preparedness and Response Plan”
  - Links to info on Drought Vulnerability of Illinois Surface Water Supplies
  - Archived info on Illinois drought
  - Links to a host of Illinois –related drought information and publications

# The Illinois Drought Preparedness & Response Plan

## Contents

- Introduction, Plan Goal, and Role of the SWPTF
- Defining Drought and Drought Impacts
- Authorities and Regulations
- Water Supply Planning & Drought Preparedness
- Drought Response
- References, Internet Links, and State Contacts



Neither the SWPTF nor the Drought Plan is regulatory nor required by law.

The Drought Plan is meant to *“provide state agencies, communities, and the public with a resource to stay updated on water supply issues, drought actions, and key considerations communities should make for drought preparedness.”*

It is up to individual communities to pursue drought preparedness.

# Drought Preparedness Community Considerations

- Changes in Water Use (past and projected)
- Changes to the Water Supply System (system capacity, peak demand)
- Uncertainties & Potential Decreases in Capacity of the Resource/System
- Problems Experienced in Past Drought Periods (lack of institutional memory)



# Community Groundwater Supply Drought Vulnerability - a GIS Study

## *Well Depth*

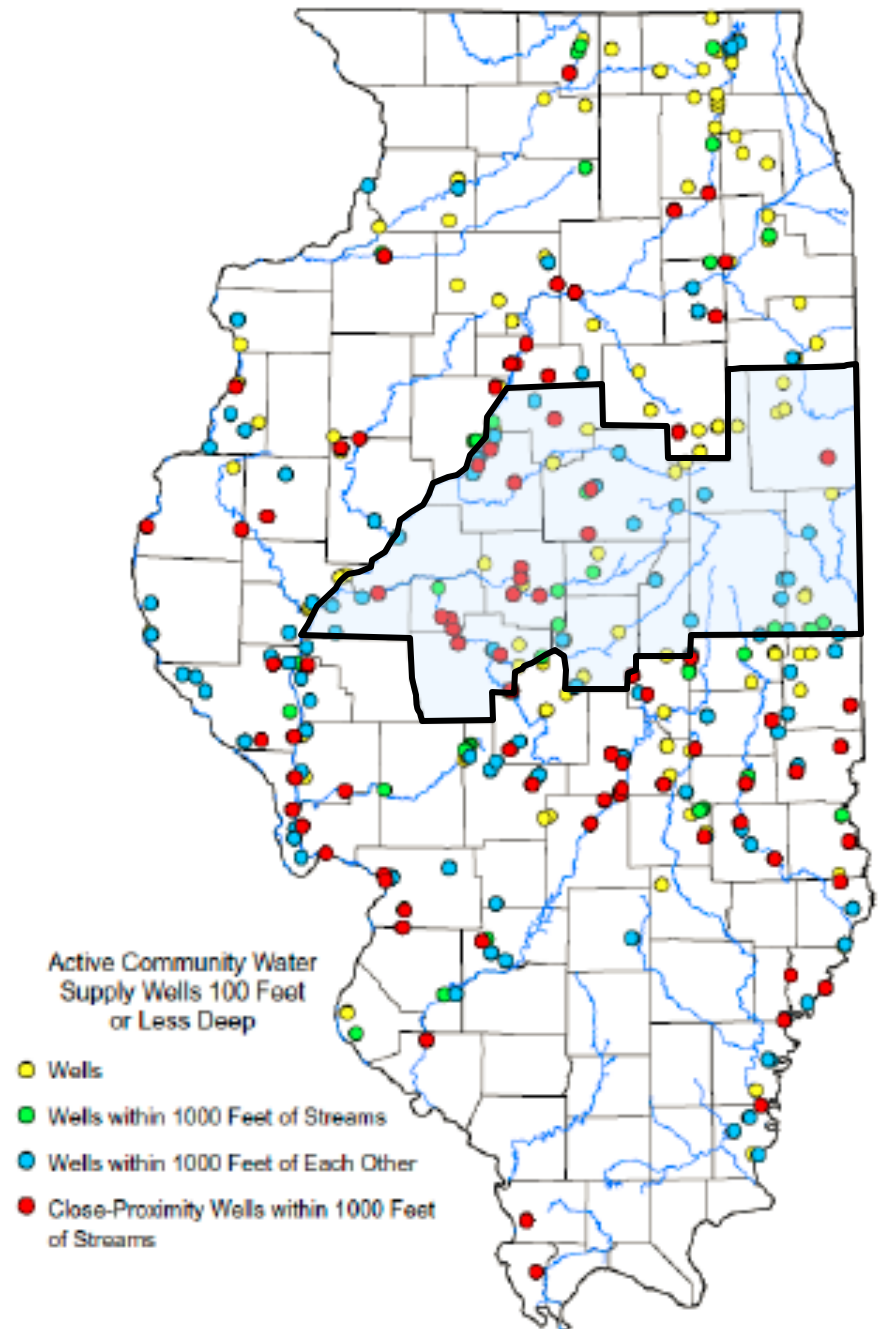
Wells < 100' deep

## *Proximity to Surface Waters*

Wells w/in 1000' of a stream

## *Well Density*

Wells w/in 1000' of each other



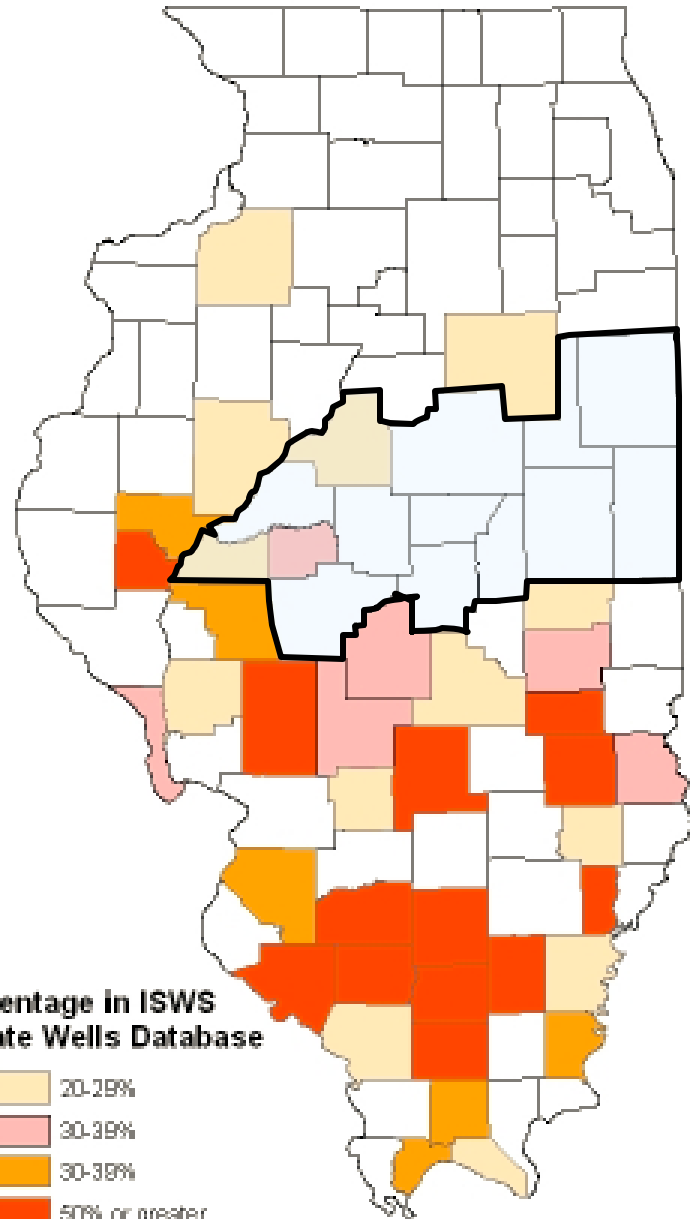
# Potentially Vulnerable Groundwater Communities in EC Illinois

*(with wells meeting all three criteria)*

Athens (Menard Cty)	Lake Windemere Estates (Tazewell Cty)
Broadwell (Logan Cty)*	Lincoln IL-American (Logan County)
<del>Chandlerville (Cass County)</del>	Milford (Iroquois County)
Curran-Gardner PWD (Sang. Cty)	Mt Pulaski (Logan County)*
Dawson (Sangamon County)	<del>Normal (McLean County)</del>
<del>East Peoria (Tazewell County)</del>	Pleasant Plains (Sangamon County)
Groveland Twnshp WD (Tazewell Cty)	Roanoke (Woodford County)
Heyworth (McLean County)	Tallula (Menard County)

*\*Groundwater assessment performed and available at MTAC web-site*

# Predominance of Bored & Dug Private Wells in Illinois



# Palmer Drought Severity Index for Illinois

