

# Arizona Department of Water Resources

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Drought Preparedness Plan  
and  
House Bill 2277 Discussion

# ARIZONA DROUGHT PREPAREDNESS PLAN



- Monitoring
- Organization
- Implementation

# ARIZONA DROUGHT PREPAREDNESS PLAN

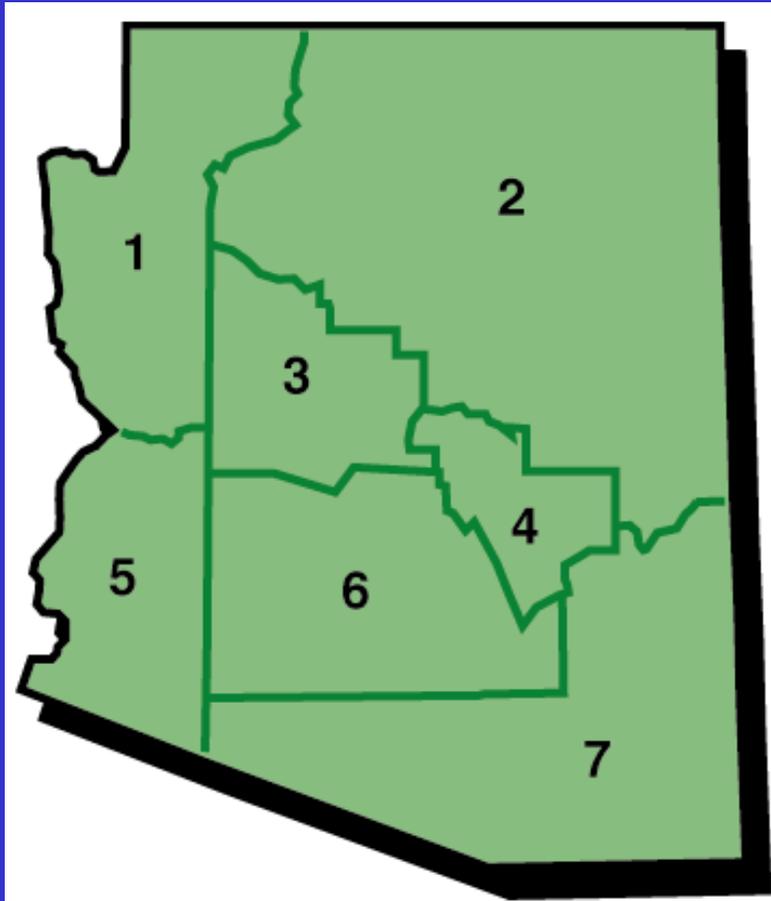


## MONITORING PHILOSOPHY

Short-Term - Measured by the departure of precipitation or another drought indicator from average conditions on a time-scale from one to several seasons.

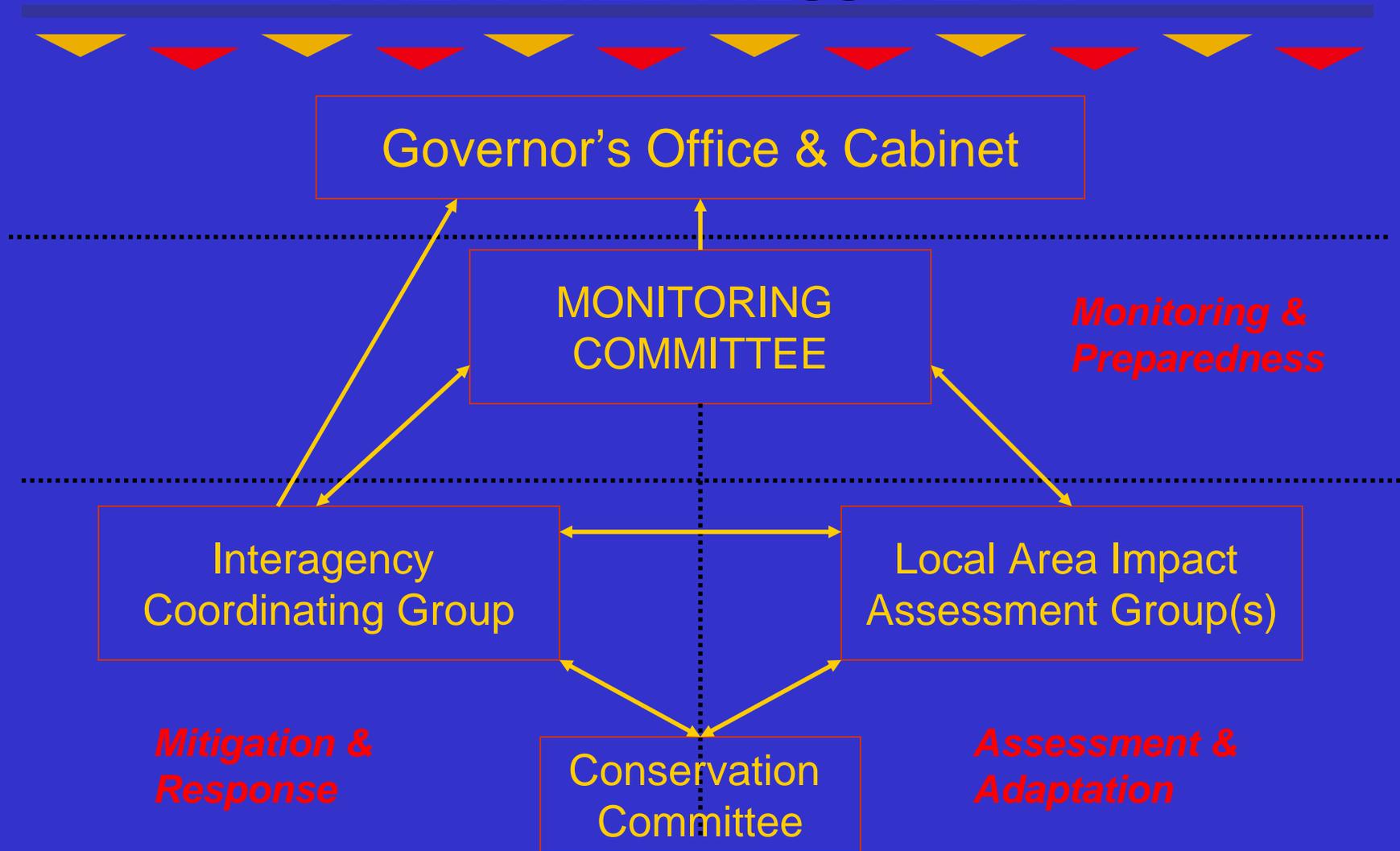
Long-Term - When sustained precipitation deficits over time periods of one to several years affect surface and subsurface water supplies.

# ARIZONA DROUGHT PREPAREDNESS PLAN



- Assess conditions in each Climate Division
- Indicators: variables to describe drought conditions.
- Triggers: specific values of the indicator that initiate and terminate each level of a drought plan, and associated management responses.

# ARIZONA DROUGHT PREPAREDNESS PLAN



# ARIZONA DROUGHT PREPAREDNESS PLAN

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## Monitoring Committee

- Critical in early warning and detection of impending drought to facilitate preparedness at the State and local levels
- Monitoring and identifying conditions throughout the state on an on-going basis
- Makes determination of drought "status"
- Comprised of data collection/analysis entities including State and Federal Agencies, Tribal representatives, State Universities, non-governmental organizations and climate experts

# ARIZONA DROUGHT PREPAREDNESS PLAN



## Interagency Coordination Group

- Serves as the policy group to provide coordination between State and Federal “responding” agencies
- Assess, implement and develop response options
- Identify pre-drought mitigation options
- Identify needs for additional resources and modifications to the Plan

# ARIZONA DROUGHT PREPAREDNESS PLAN



## Local Area Impact Assessment Groups

- Initiated by the Governor under specified conditions/drought status
- Identify local drought-related impacts
- Identify response options, unmet needs, requests for State response
- Comprised of local governments, water providers irrigation districts, non-governmental organizations, Federal land management agencies, Tribes, local landowners, and other affected parties

# ARIZONA DROUGHT PREPAREDNESS PLAN

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## Arizona Department of Water Resources

- Serves as the facilitator of the Monitoring Committee and the Interagency Coordinating Group
- Provides staff support and web site services
- Facilitates development of reports and communications to the public
- Provides technical assistance and support to the Local Area Impact Assessment Groups

# ARIZONA DROUGHT PREPAREDNESS PLAN



## Implementation

- Developing monthly Monitoring Reports
- Developing a Drought Web Site
- Hiring a Drought Coordinator & Staff
- Initiate Local Area Impact Assessment Groups

# ARIZONA DROUGHT PREPAREDNESS PLAN

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## Implementation Continued

- Identify additional monitoring needs – seek assistance for additional sites
- Seeking grants to provide assistance for local drought planning
- Require all Community Water Systems to develop a Drought Contingency Plan in accordance with HB2277

# HB 2277

## System Water Plans

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Legislation requires that all Community Water Systems prepare and submit to the Arizona Department of Water Resources a System Water Plan.

# HB 2277

## System Water Plans



### Community Water System Definition:

A public water system that serves at least 15 service connections used by year-round residents of the area served, or that regularly serves at least 25 year-round residents. A *public water system* is one that provides water for human consumption (A.R.S. 49-325).

# HB 2277

## System Water Plans

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### **Large Community Water System:**

A community water system that serves water to more than 1,850 persons.

### **Small Community Water System:**

A community water system that does not qualify as a large community water system.

# HB 2277

## System Water Plans

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### Water System Plan Due Dates

Large Community Water systems – Due by  
January 1, 2007

Small Community Water Systems – Due by  
January 1, 2008

# HB 2277

## System Water Plans



### System Water Plan Components

- Water Supply Plan
- Drought Preparedness Plan
- Water Conservation Plan

# HB 2277

## System Water Plans



### Exemptions

- A Community Water System that has been designated as having an assured and adequate water supply pursuant to Section 45-576 is exempt from the requirement to submit a Water Supply Plan.

# HB 2277

## System Water Plans



### Exemptions

- A Community Water System regulated as a small municipal provider under Chapter 2, Article 9 of this Title is exempt from the requirement to submit a Water Conservation Plan if the provider:
  - Petitions the Director of ADWR before January 1, 2007.
  - Shows that under reasonable growth projections they will be regulated as a large municipal water provider by January 1, 2012.

# HB 2277

## System Water Plans



### Exemptions

- A Community Water System that has previously submitted required information may make a request to ADWR to be exempted from submitting that information in its Water System Plan.

# HB 2277

## System Water Plans



### Water Supply Plan

Shall evaluate the water supply needs in the service area and propose a strategy to meet identified needs.

# HB 2277

## System Water Plans



### Water Supply Plan

Plan must describe:

- Sources of water
- Service area
- Transmission system facilities
- Monthly system production data
- Historic demand for the past 5 years
- Projected demands for the next 5, 10 and 20 years

# HB 2277

## System Water Plans



### Drought Preparedness Plan

Shall be designed to meet the specific needs of the water system for which it applies.

# HB 2277

## System Water Plans



### Drought Preparedness Plan

Plan must include:

- Contact information for water provider and persons responsible for operations during water shortage emergency
- Drought and emergency response strategies
- A plan of action to respond to water shortage conditions
- Provisions to inform and educate the public

# HB 2277

## System Water Plans



### Water Conservation Plan

Shall be designed to increase the efficiency of the water system, reduce waste and encourage consumer water conservation efforts.

# HB 2277

## System Water Plans



### Water Conservation Plan

Plan must include:

- Measures to control lost or unaccounted for water
- Consideration of water rate structures that encourage efficient use of water
- Information and education on conserving water

# HB 2277

## System Water Plans



### Other Considerations

- Two or more water providers serving the same area may coordinate their efforts and submit a joint plan.
- Plans must be updated every 5-years.
- Disclosure of non-compliance will be reported to the governing body in the service area.

# HB 2277

## System Water Plans



### Other Considerations

- Water systems do not have to resubmit information required by this legislation if it is already on file with ADWR.
- ADWR is developing forms for small water systems to complete and submit as their water plan.
- ADWR is developing guidance documents to assist water systems with developing plans.

# HB 2277

## System Water Plans



### Records & Annual Report of Water Use

Annual report of water use that includes:

- Information, if known, regarding sources of water
- Quantity of water pumped or delivered
- Well registration numbers
- How water was used
- Number of customers served
- Information on storage facilities

# HB 2277

## System Water Plans



### Records & Annual Report of Water Use

- Exemption for community water systems located inside Active Management Areas from duplicating reporting requirements.
- ADWR will develop blank forms and distribute them on a timely schedule, in coordination with the ACC and ADEQ to facilitate the reporting of similar or identical information.

# HB 2277

## System Water Plans



### ADWR Outreach

- Stakeholder meetings to review requirements and deadlines for annual reporting.
- Public workshops to gather input for guidance documents and Small Community Water Systems form development.
- Public Workshops to review what information will need to be compiled for System Water Plan Development.

# Questions

