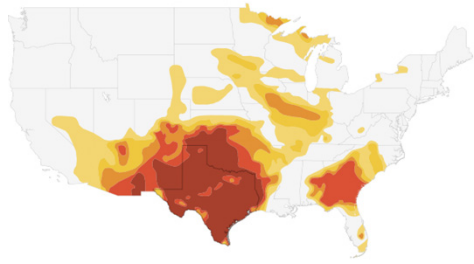


Review of Revised Regional Water Planning Requirements Related to New Drought Chapter 7.0

Spring-Summer 2013 | Temple McKinnon
Team Lead, Regional Water Planning

Texas Water 
Development Board





Outline

- i. Planning parameters and background on reasons for (Ch. 7) rule changes**
- ii. Background on drought types and Texas' response**
- iii. Summary of rule changes**

BASIC PLANNING PARAMETERS:

- Meet **drought of record** water needs
- 50-year planning horizon
- 5-year planning cycle
- Categories of water use: municipal, manufacturing, irrigation, mining, livestock, steam-electric power

“The state water plan shall provide for the preparation for and response to drought conditions.”

- Guidance Principles for the State Water Plan Development §358.3(1)

“The state drought manager [*TDEM*] is responsible for managing and coordinating the drought response component of the state water plan.”

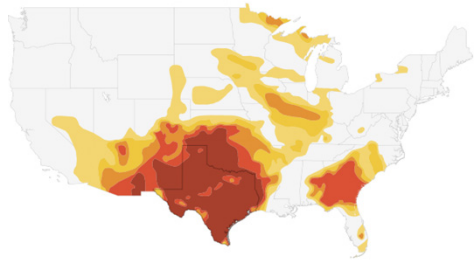
*- Texas Water Code, Sec. 16.055.
Drought Response Plan*

As a result of the 2011 drought, TCEQ and TDEM provided input on rules based on:

- **number of water systems in danger of running out of water**
- **lack of implementation of DCPs**
- **lack of information on local options for water in emergency situation**
- **poor local coordination**

Rule changes in response to the 2011 drought will require RWPGs to:

- **collect, analyze, and consider additional information**
- **make additional recommendations**



ii – Drought Background

Types of Drought:

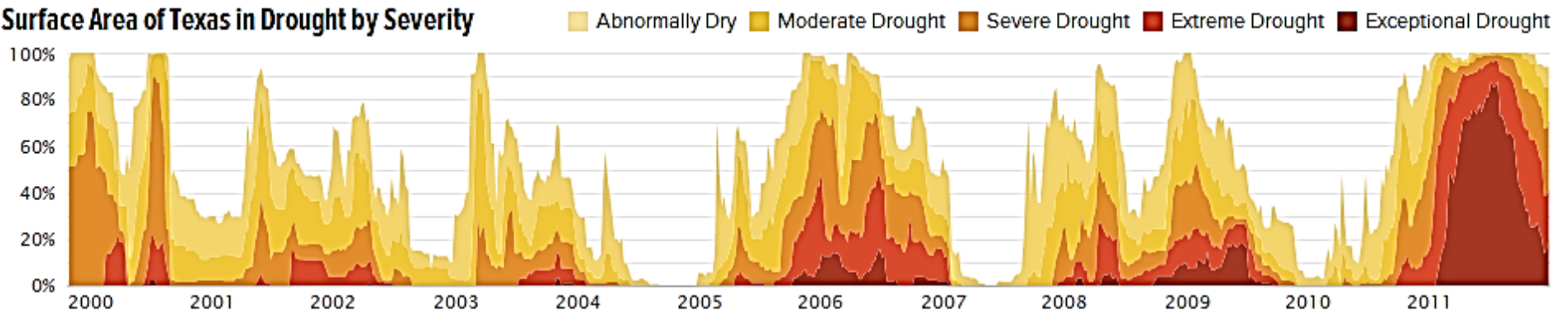
- meteorological
- agricultural
- hydrological

**regional planning focuses on
drought impacting water supplies**

ii – Drought in Texas

Texas' State-Level Response to Drought

Surface Area of Texas in Drought by Severity



Drought Contingency Plan (DCP):

A plan required from wholesale and retail public water suppliers and irrigation districts

The plan may consist of one or more strategies for **temporary supply and demand management responses** to temporary water supply shortages and other water supply emergencies

Drought Management Measures:

Demand management activities to be implemented during drought that may be evaluated and included as **water management strategies.**

Drought-related plans:

Regional water plans

regional water planning groups

*State water plan

texas water development board

Water conservation plans

certain public water providers

Drought contingency plans

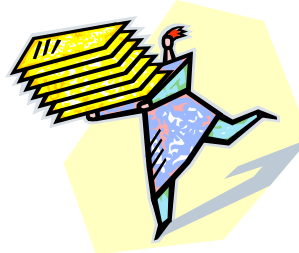
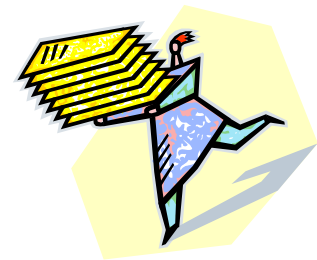
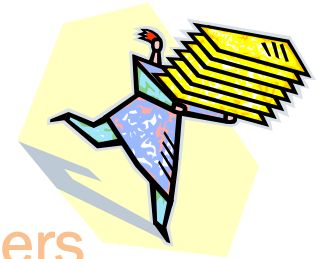
certain wholesale, all retail public water providers

*Drought preparedness plan

drought preparedness council

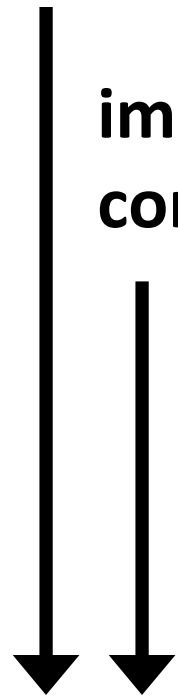
*State emergency management plan

texas division of emergency management



ii – Drought in Texas

implement water plan



**implement water
conservation plan**

before the drought

drought

implement drought preparedness plan*



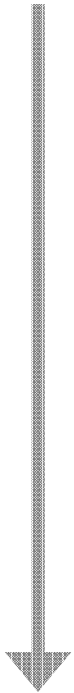
declare drought disaster*



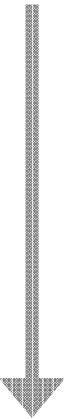
implement state emergency management plan*



implement water plan



implement water conservation plan



before the drought

drought

***state level**

implement drought preparedness plan*

implement drought contingency plans (& drought WMSs or other measures if applicable)

declare drought disaster*

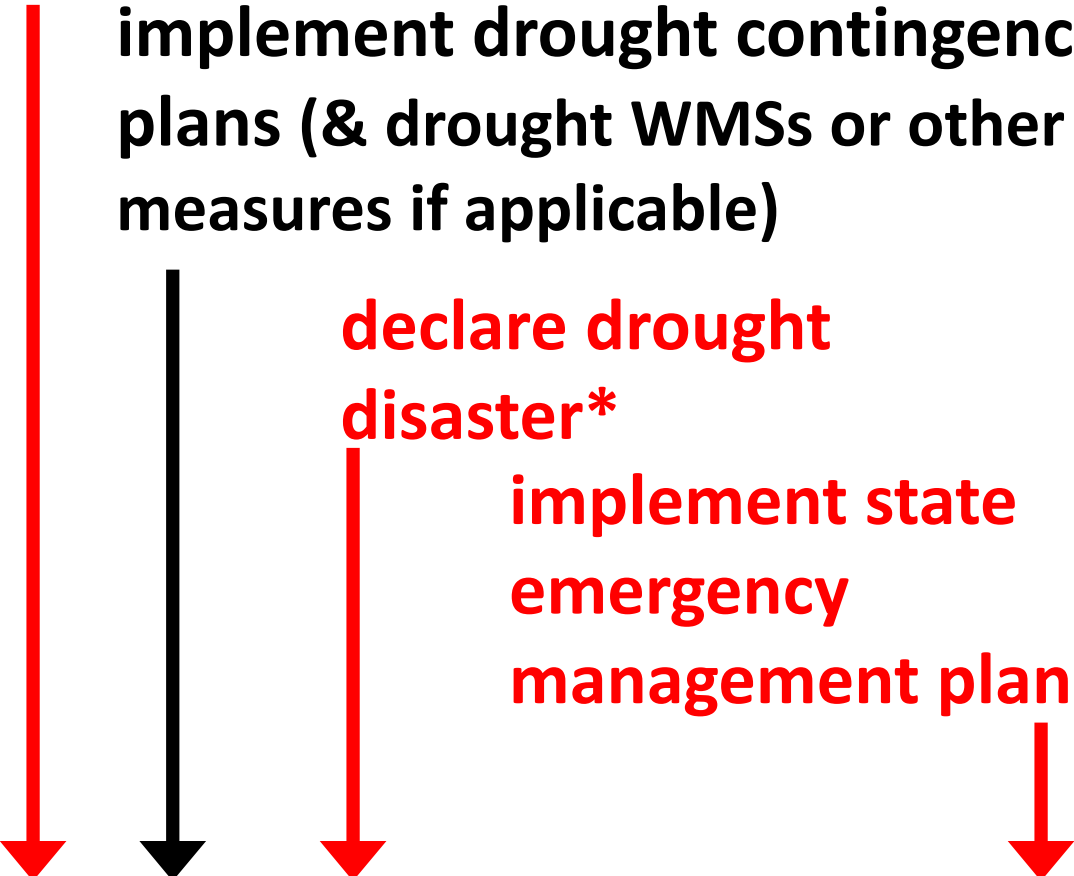
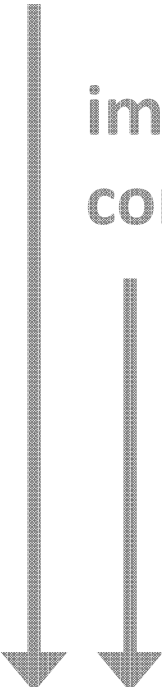
implement state emergency management plan*

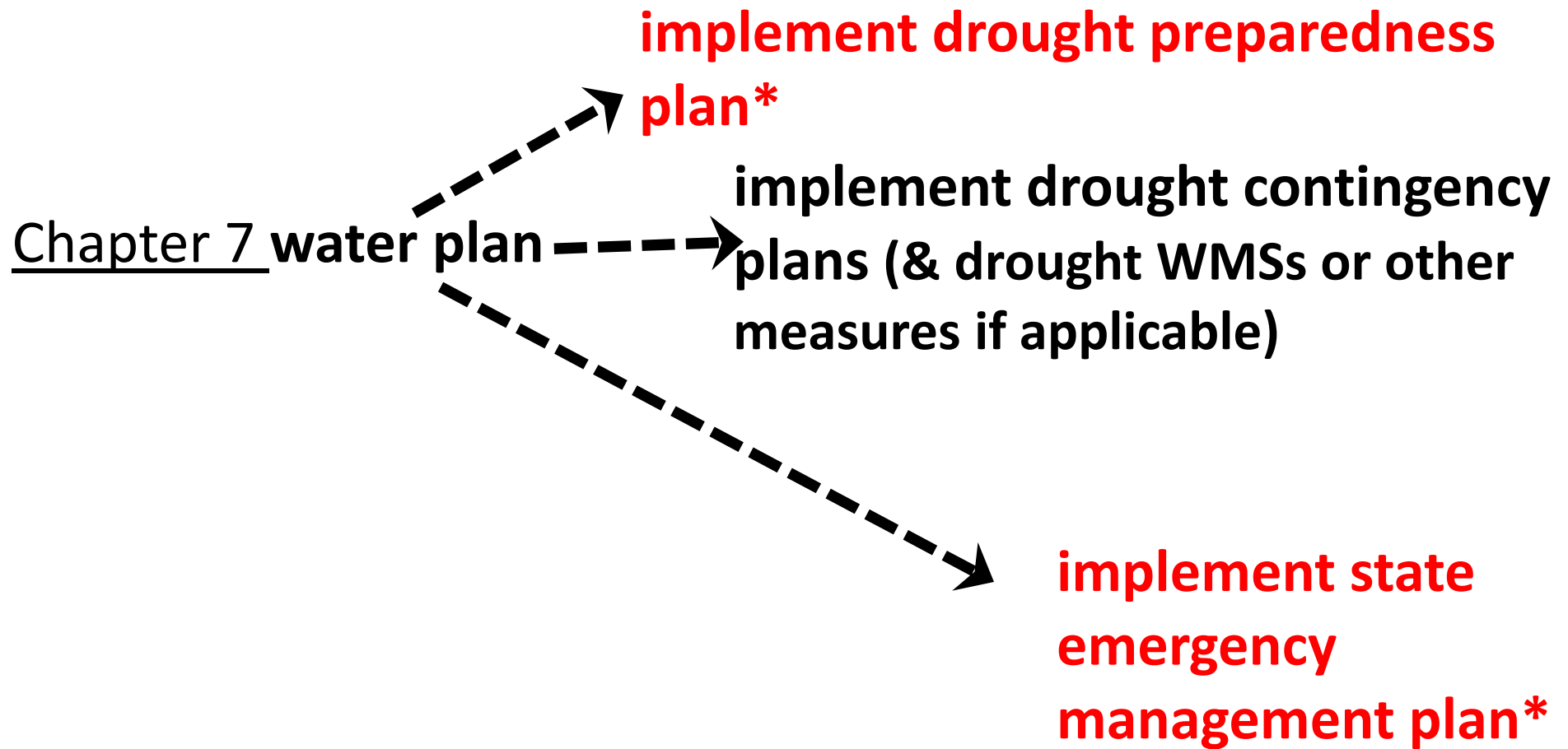
implement water plan

implement water conservation plan

before the drought

drought





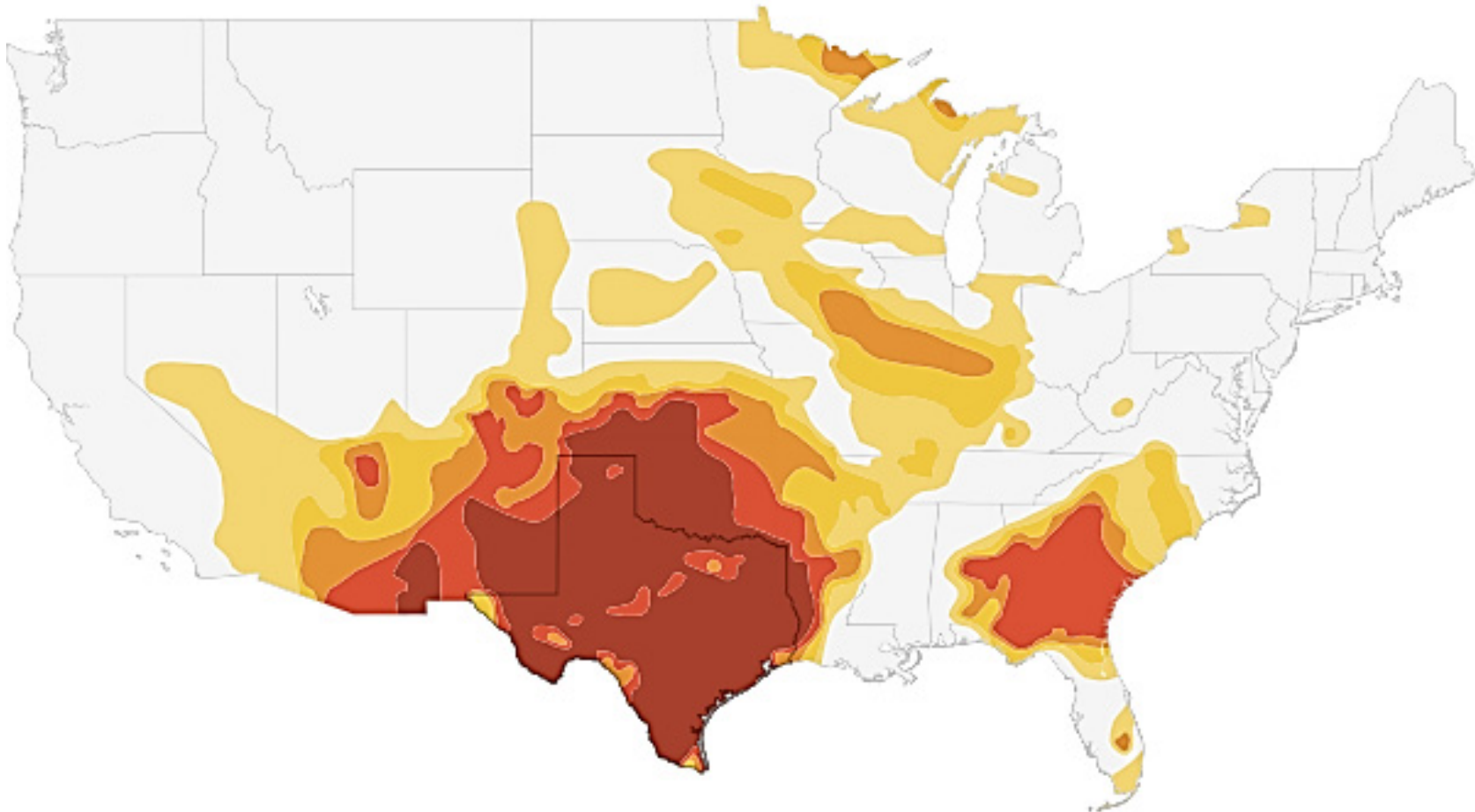
before the drought

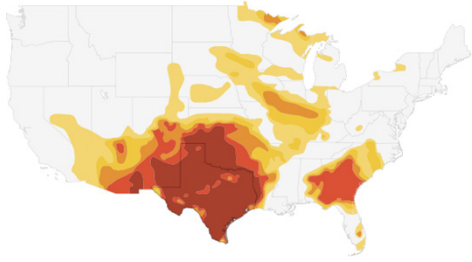
drought

*state level

Chapter 7 – Drought Response Information, Activities, and Recommendations

A NEW CHAPTER IN ALL PLANS

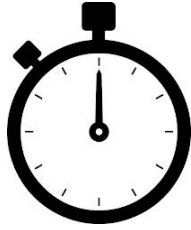




iii – Rule Changes

- 1) **aggregated and retained** previous drought-related requirements
- 2) **modified/clarified** requirements
- 3) added **new requirements**

1) previous requirements

- current preparations and responses to drought §357.20; 357.30(10); 357.42(a)(b) 
- evaluate drought management WMSs for needs §357.3(c)(3); 357.34(f)(1)
- recommend other drought management measures §357.42(f)(4)

2) modified requirements

- more information on DORs §357.30(9)
- identify existing and potential future emergency interconnections (incl in DCPs) §357.42(d)(e); 357.34 (c)(6)
- drought response information in one Ch.
+ in general, looking for better information on action-triggers

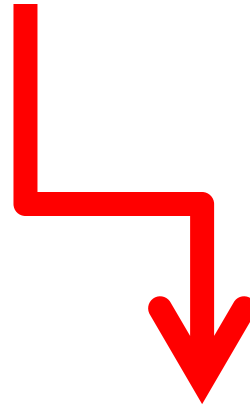
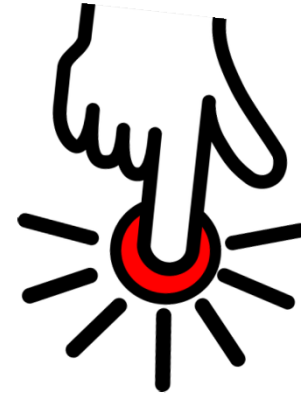
3) new requirements*

- A. recommendations for each existing source**
(triggers and responses) §357.42(c),(i)(2)
- B. emergency responses to local conditions**
§357.42(g)
- C. develop region-specific model DCPs** §357.42(j)
- D. recommendations to the State Drought Preparedness Council** §357.42(i)

A - Trigger & Response

recommendations for future response:

'critical' Source triggers



'critical' User responses

these may be based these on existing triggers&responses

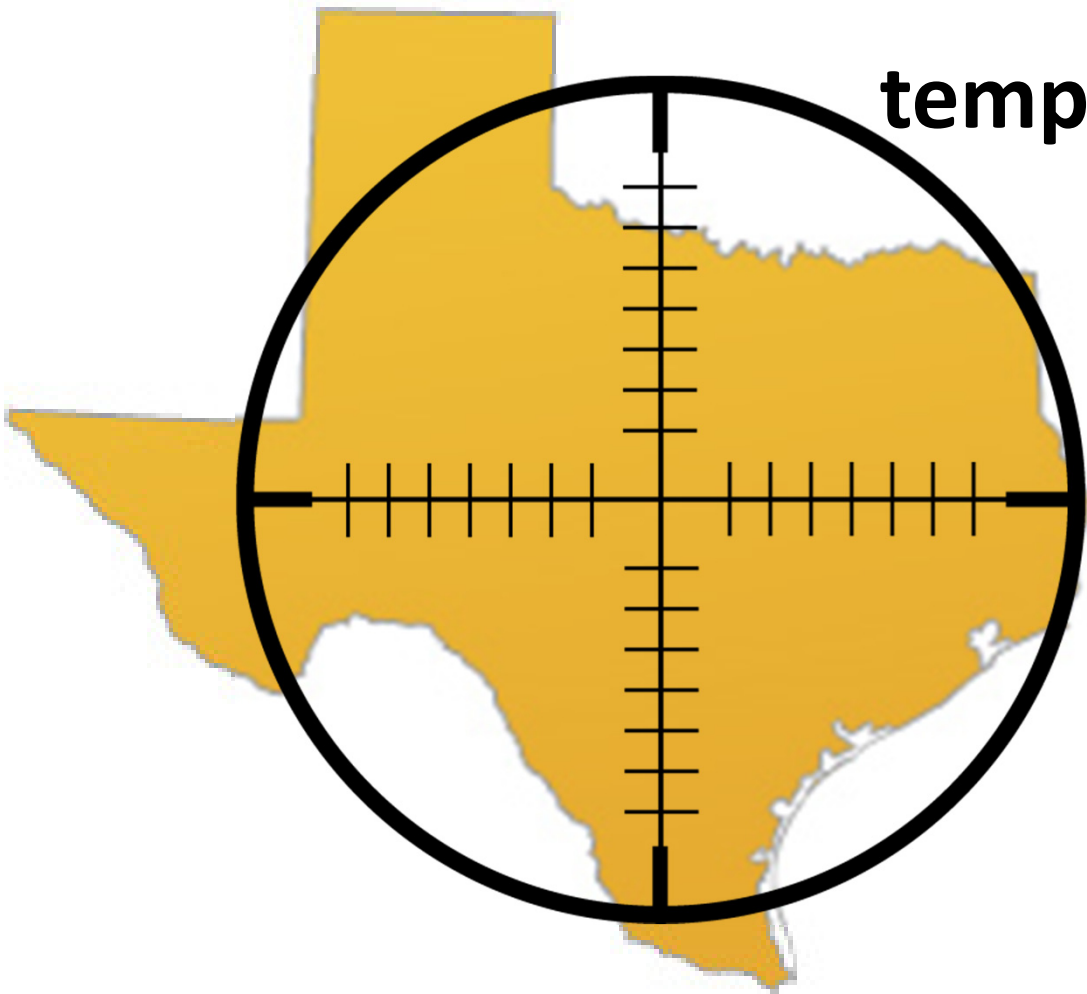
**recommendations are NOT
enforceable or mandatory**

B - Emergency Responses

Identify potential emergency responses

temporary conditions:

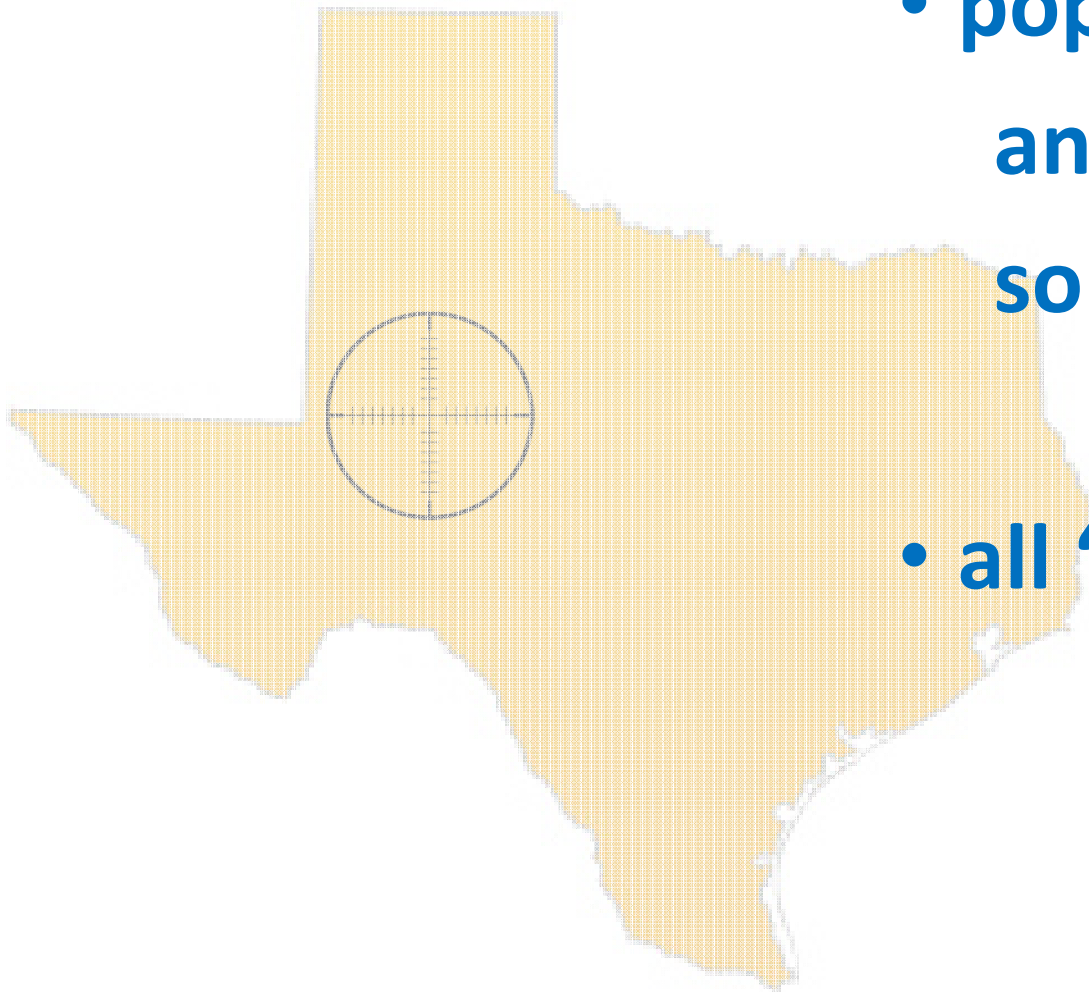
- **localized drought**
- **loss of local supply source**



B - Emergency Responses

entities to be evaluated:

- **population <7,500**
and
sole source of water
- **all 'county-other'**



B - Emergency Responses

identify potential alternative sources:

- 'signpost' information



- **template** *[handout]*



NOT FULL WMS EVALUATIONS

C - Drought Contingency Plans

RWPG to develop region-specific DCPs

- **region-specific**
- **1 for each water user category (total of 6)**
- **based on TCEQ guidance**

may be based on existing DCPs



NOT enforceable or mandatory for WUGs

D - Other drought items

- Consider and make recommendations regarding **State Drought Preparedness Council & Drought Preparedness Plan**
- Aggregate old and new drought response requirements in new:



**Chapter
7.0**

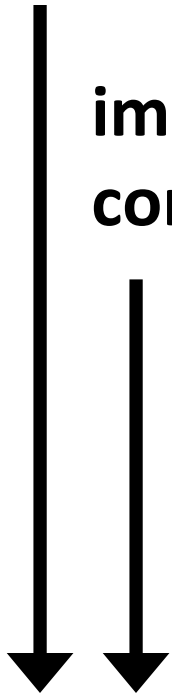
recap

purpose and context of the
information generated in Chapter 7

recap

implement water plan

**implement water
conservation plan**



**implement drought
contingency plans (& drought
WMSs, if applicable)**

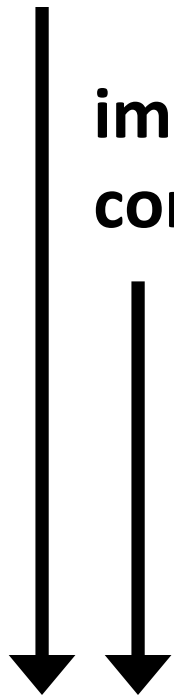


before the drought

drought

recap

implement water plan



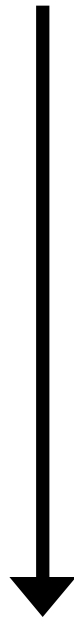
implement water conservation plan



implement drought preparedness plan*



implement drought contingency plans (& drought WMSs, if applicable)



declare drought disaster*



implement state emergency management plan*



before the drought

drought

*state level

recap

Chapter 7 water plan

implement drought preparedness plan*

implement drought contingency plans (& drought WMSs, if applicable)

implement state emergency management plan*

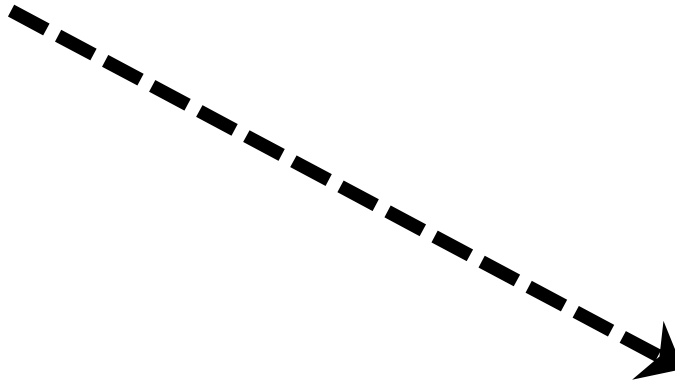
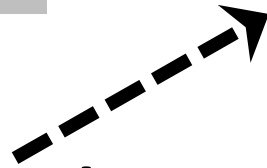
before the drought

drought

recap

recommendations

Chapter 7 water plan



before the drought

drought

recap

Chapter 7 water plan

- model DCPs
- drought WMSs
- other drought measures
- triggers&responses

before the drought

drought

recap

Chapter 7 water plan



- emergency interconnects
- emergency responses (<7,500 pop)
- other

before the drought

drought

recap

recommendations

Chapter 7 water plan

- model DCPs
- drought WMSs
- other drought measures
- triggers&responses

- emergency interconnects
- emergency responses (<7,500 pop)
- other

before the drought

drought

Questions?

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Texas Water
Development Board

The logo graphic for the Texas Water Development Board, featuring three stylized, overlapping blue and white curved lines that resemble waves or a fan.