

Desired Future Conditions



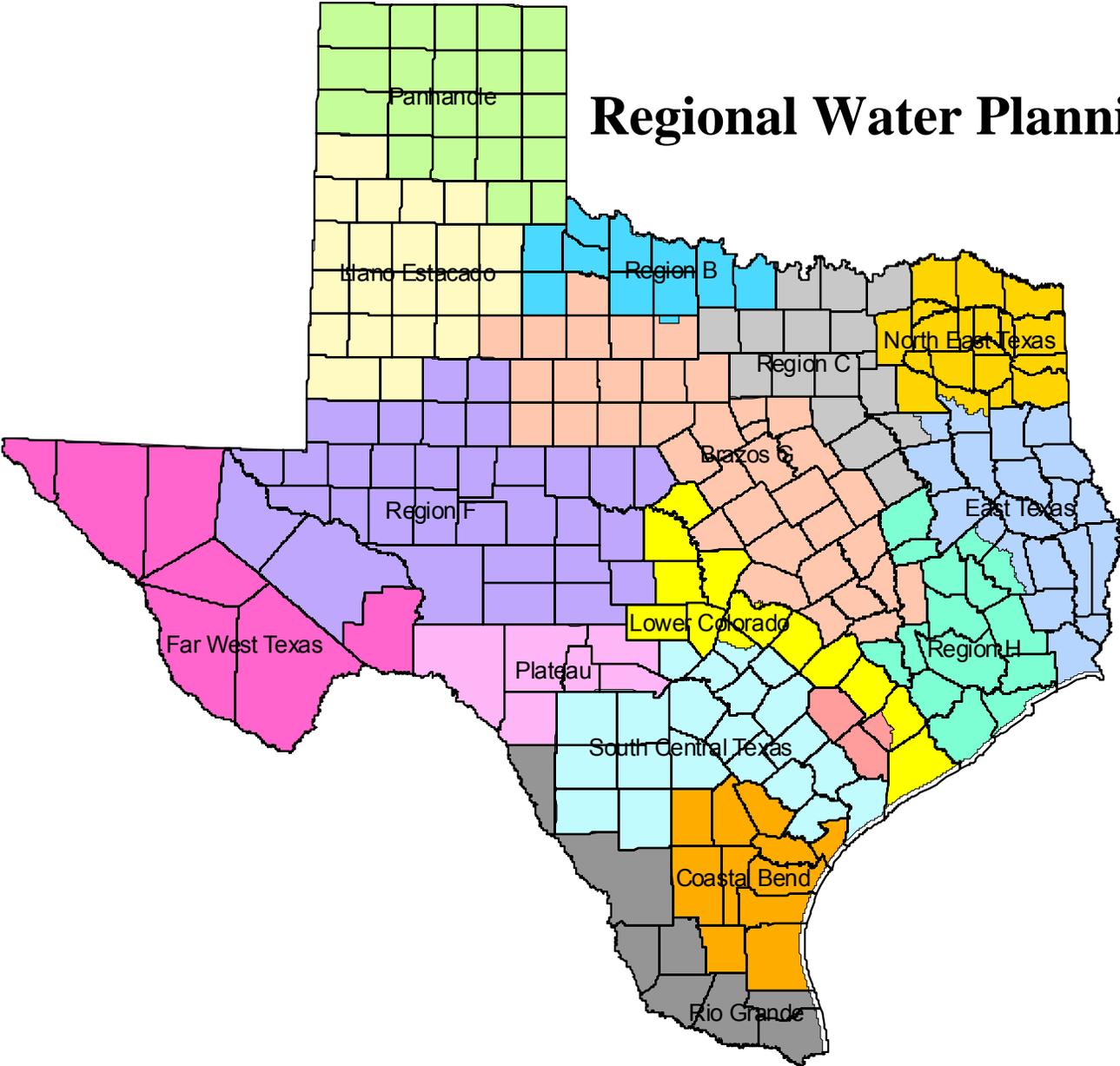
Brenner Brown

Research Specialist, Groundwater Division

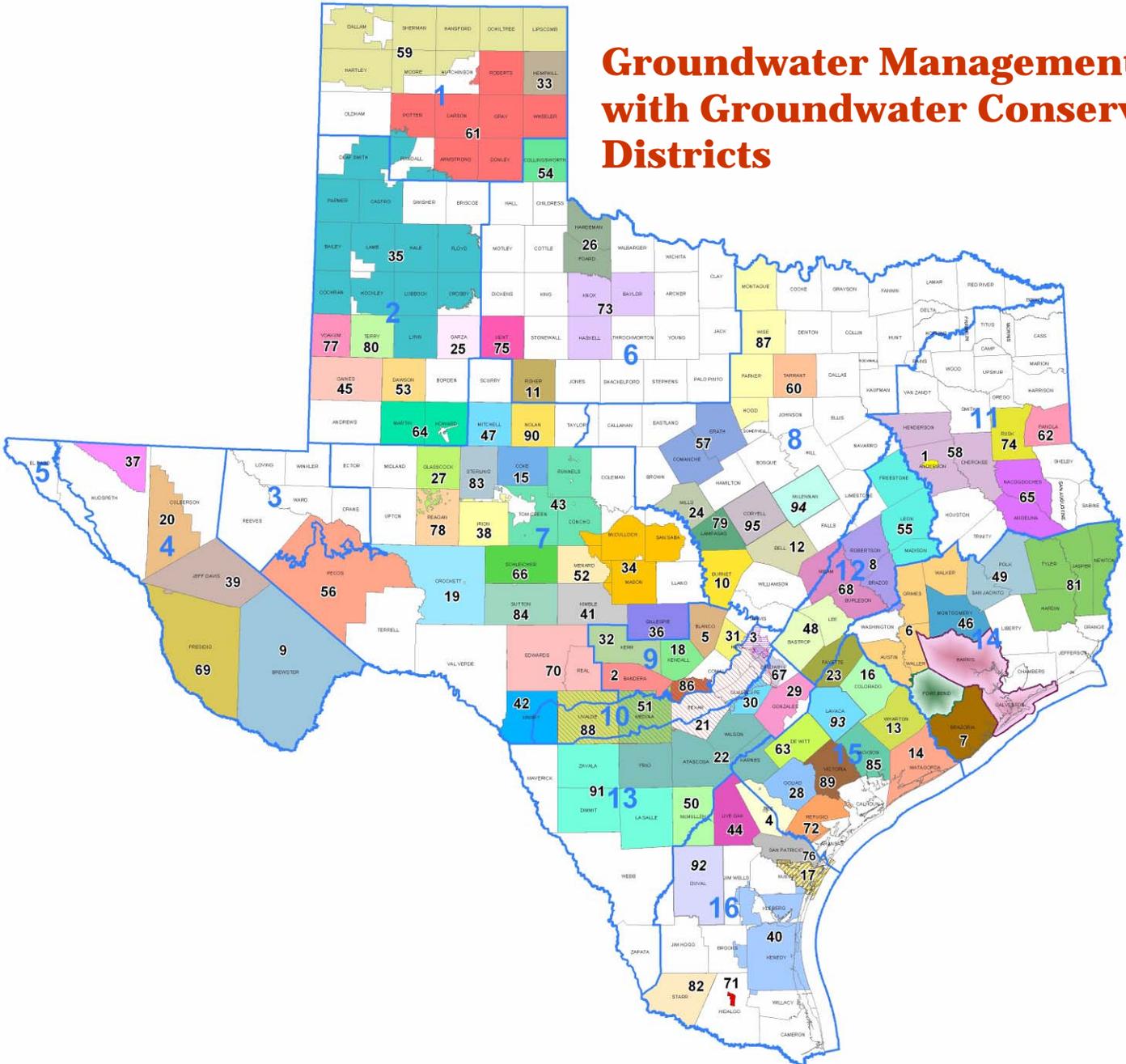
Texas Water Development Board

February 4, 2009

Regional Water Planning Areas



Groundwater Management Areas with Groundwater Conservation Districts

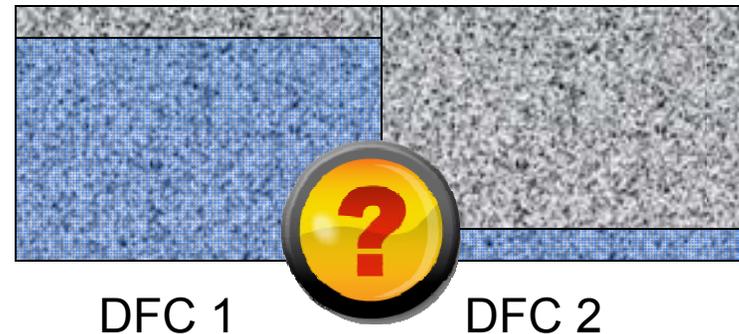


Desired Future Conditions



“Groundwater conservation districts shall submit desired future conditions of the groundwater resources in their groundwater management area...”

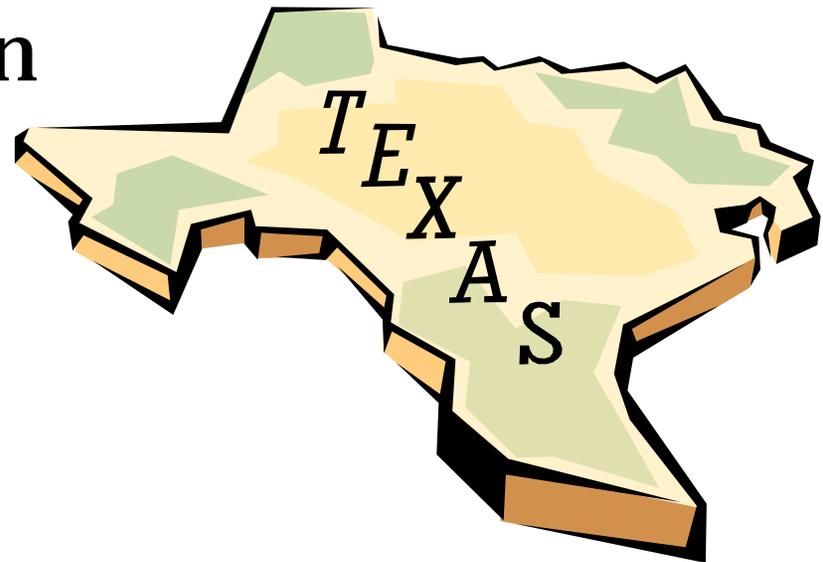
“physically possible, individually and collectively,...”



Desired Future Conditions

May be established for:

- Aquifer
- Aquifer subdivision
- Geologic strata
- Geographic area



Desired Future Conditions Examples

Groundwater Management Area 8

Spring Flow

Maintain at least 100 acre-feet per month stream/springflow in Salado Creek during a repeat of the drought of record in Bell County

Desired Future Conditions Examples

Groundwater Management Area 9

Water Levels

Hickory Aquifer – allow for an increase in average drawdown of no more than 7 feet.

What is not a Desired Future Condition?

Pumping Conditions

Pumping totals 10% of the 1997 volume each decade.



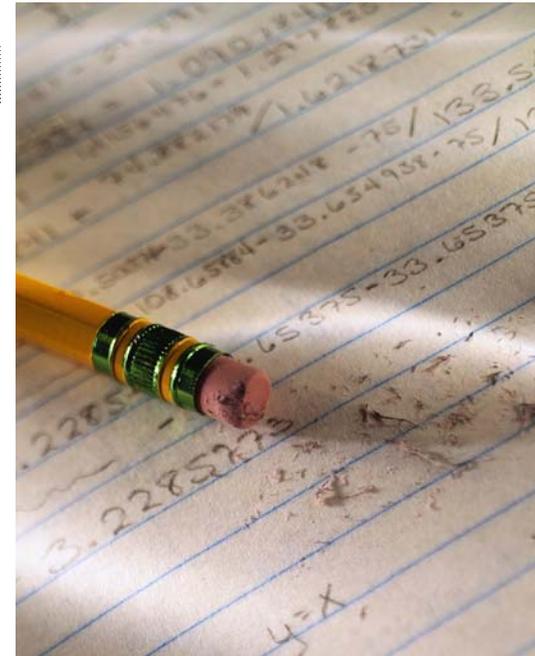
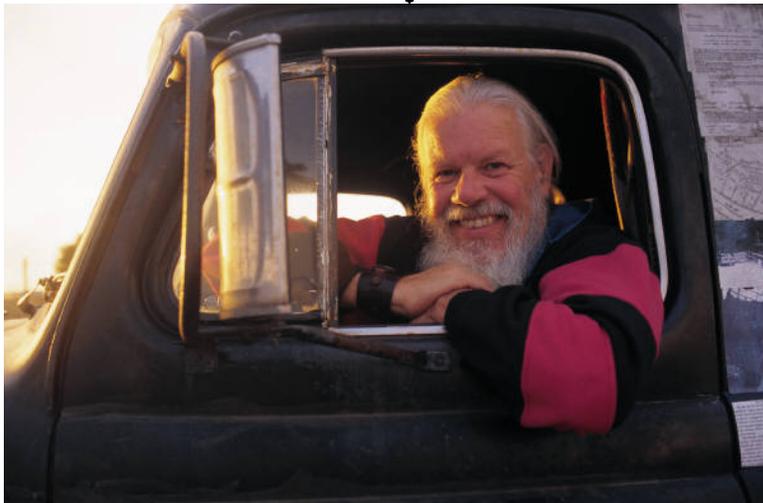
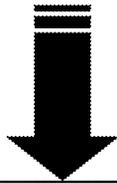
Recharge

Recharge accounts for 90% of the pumping over 50 years.

Desired Future Conditions

Groundwater Conservation
Districts

in GMAs determine
Desired Future Conditions



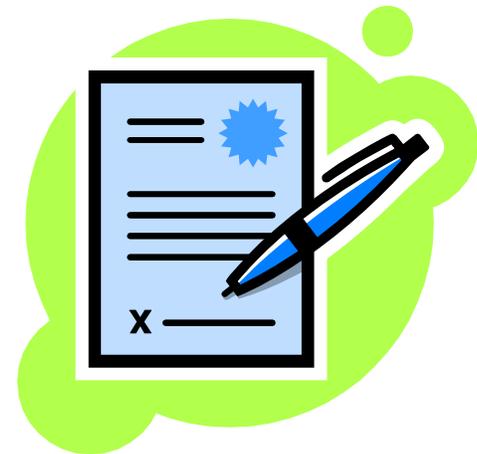
TWDB



calculates or verifies
Managed Available
Groundwater

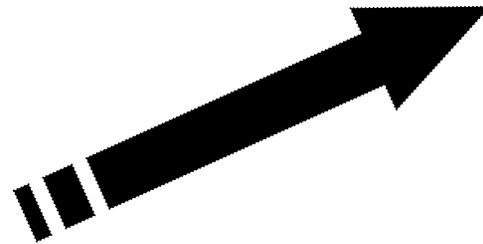
Managed Available Groundwater

The amount of water that may be permitted by a district for beneficial use in accordance with the desired future condition of the aquifer.



Managed Available Groundwater

rules and
management
plans



regional
water
plans

Timelines

- Statutory deadline
September 1, 2010
- and every 5 years thereafter
- to be in the State Water Plan 2012,
either negotiated with region by each
GMA or you had to be in GMA 8 and
turn in your DFCs by January 1, 2008



Regional Planning Requirements

- The state water plan... shall be a guide to **state water policy**. The commission shall take the plan into consideration in matters coming before it.

Regional Plan identifies:

- ...each source of water supply in the regional water planning area, including information supplied by the executive administrator on the amount of managed available groundwater...

Petition to TCEQ in the DFC Process

- (1) a district has failed to adopt rules;
- (2) the rules are not designed to achieve the desired future condition of the groundwater resources;
- (3) the groundwater is not adequately protected by the rules adopted by a district; or
- (4) the groundwater is not adequately protected due to the failure of a district to enforce substantial compliance with its rules.

Petition to TWDB in the DFC Process

- A petition appealing the approval of the desired future conditions of the groundwater resources.
- The petition must provide evidence that the districts did not establish a reasonable desired future condition.

Contact information

Rima Petrossian, P.G.

Texas Water Development Board

(512) 936 2420

rima.petrossian@twdb.state.tx.us



GMA 9

Stakeholder Process

Policy Research Project
LBJ School of Public Affairs/Jackson
School of Geosciences

Strategy

- Conduct Interviews
- Hold Public Meetings
- Provide Stakeholders Opportunity to Interact With GAM

Stakeholder Interviews

- Farmers/Ranchers
- Business Owners
- Property Developers
- Government Officials
- Environmentalists
- Municipal Representatives
- GCD Staff and Board Members

Comment Categories

- Current Water Problems
- Causes
- Possible Actions
- Barriers to Action
- Consequences of No Action
- Ideal Outcomes

Public Meetings

- Presentation of Interview Results
- Results of GAM Runs
- Question ↔ Answer

Results

- Increased Public Understanding and Awareness
- GMA Planning Committee Better Prepared
- DFC Adopted