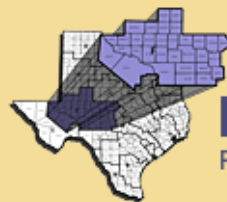


# Region F Water Planning Group Meeting

March 20, 2014

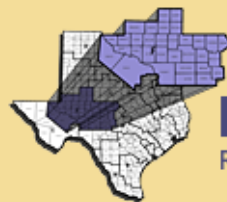


**REGION F WATER PLAN**  
Regional Water Planning Group

# Source Limitations and Allocation

## Groundwater Shortages

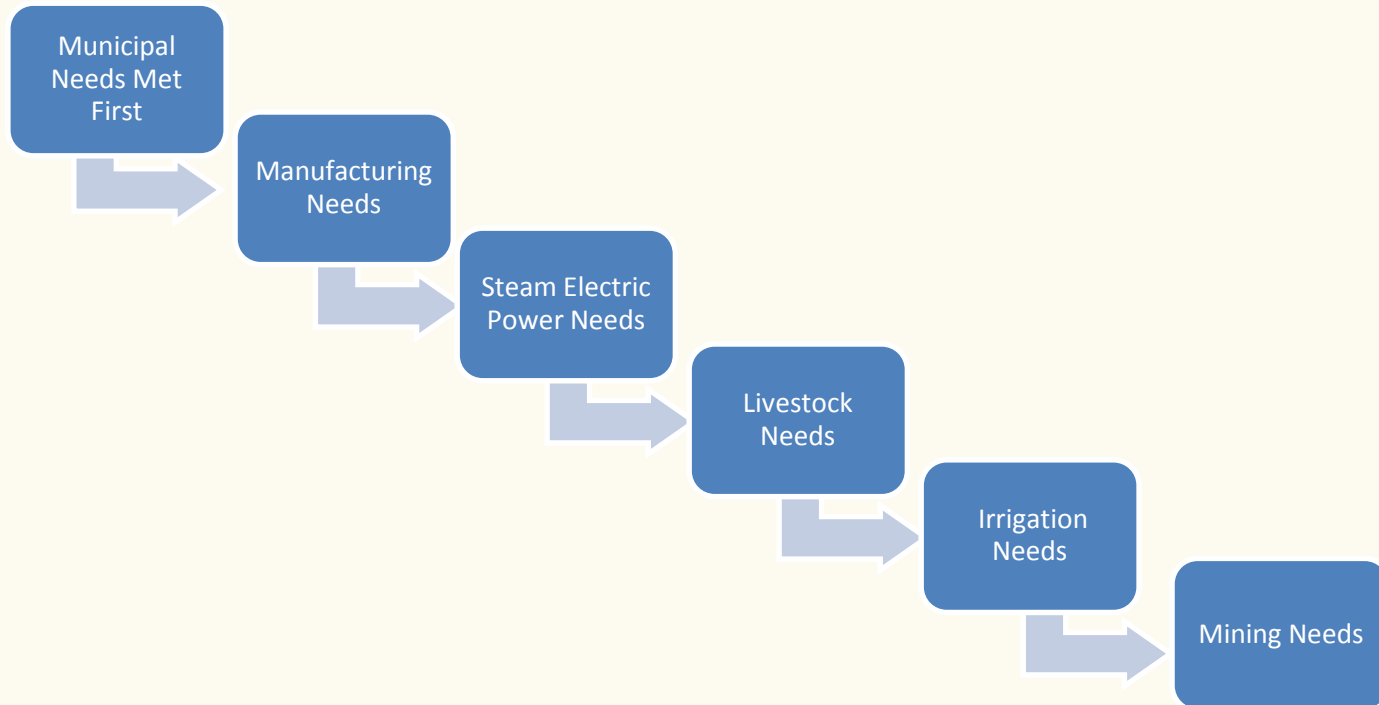
- Evolving legal framework and management varies
- Groundwater is property right
- MAG is a cap (for Planning purposes)
- Can pump as much as possible within permit limits
- Some counties have no GCDs and therefore no limits
- Assumptions must be made about who the shortages will affect
- Some shortages are “paper” and others are real



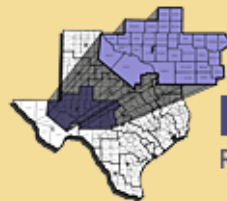
# Groundwater Shortages

## Previous Water Planning Cycles

- A tiered approach by use type was used



- As a result, generally most shortages affected only mining and irrigated agriculture needs in most counties



# Groundwater Shortages

## Current Water Planning Cycle

- Previous assumptions may not be realistic when shortages are large and competition for water is real
- More likely that all users reliant on a source will suffer to some extent

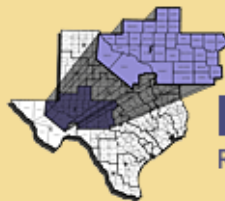
If there is a groundwater shortage:

Reduce Mining & Irrigation Supplies up to 20%



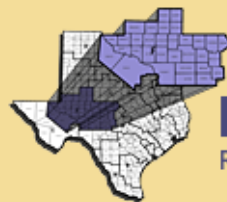
If there is still a groundwater shortage:

Reduce all users by an equal percentage until availability is no longer exceeded. Mining and irrigation are reduced in addition to the previous 20% reduction.



# Counties Limited by MAGs

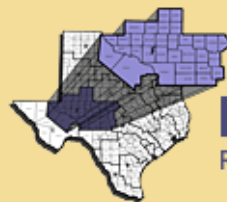
- **Counties and aquifers that are over-allocated:**
  - Ogallala: Andrews, Howard, Martin
  - Dockum: Scurry
  - Hickory: McCulloch
- **Counties and aquifers that are fully allocated:**
  - Ogallala: Borden
  - Trinity: Brown
  - Lipan: Concho
  - Edwards-Trinity: Howard



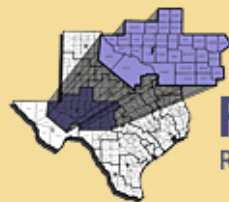
# Groundwater Shortages

## Current Water Planning Cycle

- May need to coordinate with Groundwater Conservation Districts (GCDs)
- Need your direction regarding assumptions



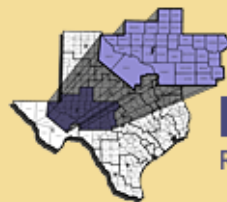
# CONSERVATION AS A WATER MANAGEMENT STRATEGY



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# Municipal Conservation Assumptions

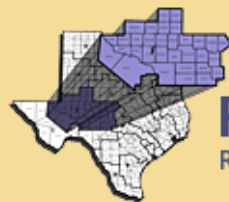
- Will be considered for all municipal WUGs with >140 gpcd
- Evaluation performed for:
  - WUGs <10,000 in population
  - WUGs >10,000 in population





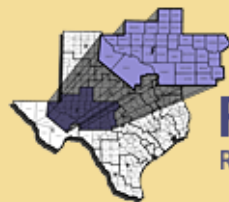
# Screening Matrix Evaluation

- **Screening of 68 BMPs**
  - Includes variations of similar strategies
- **Evaluated based on:**
  - Cost
  - Potential Water Savings
  - Time to Implement
  - Public Acceptance
  - Technical Feasibility
  - Staff Resources



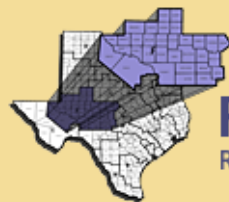
# Recommendations for Entities <10,000

- Education and Outreach
- Water Audits and Leak Repair
- Rate Structure
- Water Waste Ordinance

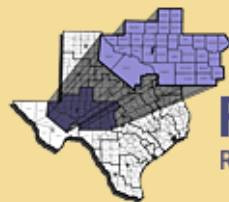


# Recommendations for Entities >10,000

- Education and Outreach
- Water Audits and Leak Repair
- Rate Structure
- Water Waste Ordinance
- Landscape Ordinance
- Time of Day Watering Limit



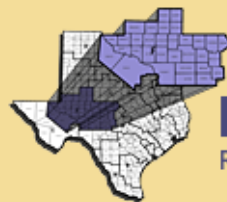
# 2011 PLAN PROJECT PRIORITIZATION



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# RWPG Project Prioritization

- RWPG Stakeholder Committee developed standards – November 25, 2013
- Addresses the following criteria
  - Decade of need
  - Feasibility
  - Viability
  - Sustainability
  - Cost effectiveness

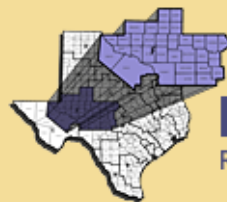


# Criteria Weighting

## Criterion

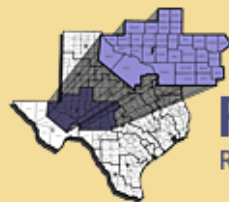
## Weighting

– Decade of Need	40%
– Feasibility	10%
– Viability	25%
– Sustainability	15%
– Cost Effectiveness	10%



# Region F 2011 Projects

- 92 projects to be prioritized
- Many questions – definitive response
  - Data from plan/ database
- All projects will need additional information for “feasibility” questions
- Special considerations:
  - 10 projects with “0” supply
  - Subordination has “\$0” unit costs



# Implementation Schedule

