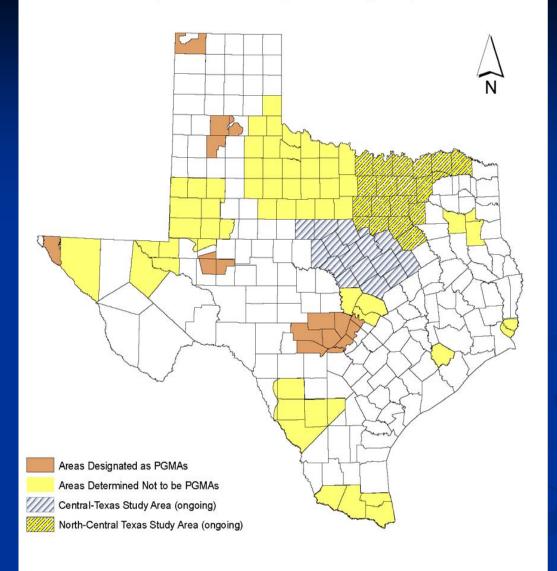
## North-Central and Central Texas Update PGMA Studies for the Trinity Aquifer

Water Supply Division Steve Musick, Kelly Mills, Leon Byrd



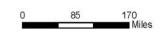
#### Priority Groundwater Management Areas (PGMA)



#### Texas Commission on Environmental Quality



This map was prepared by the TCEQ for display purposes only No claims are made to the accuracy or completeness of the information shown here nor is this map suitable for any othe use. The scale and location of mapped data are approximate. The groundwater conservation district boundaries are not land survey data and may not accurately depict legals descriptions. For more information about this map, please contact TCEQ Groundwater Planning and Assessment Team.

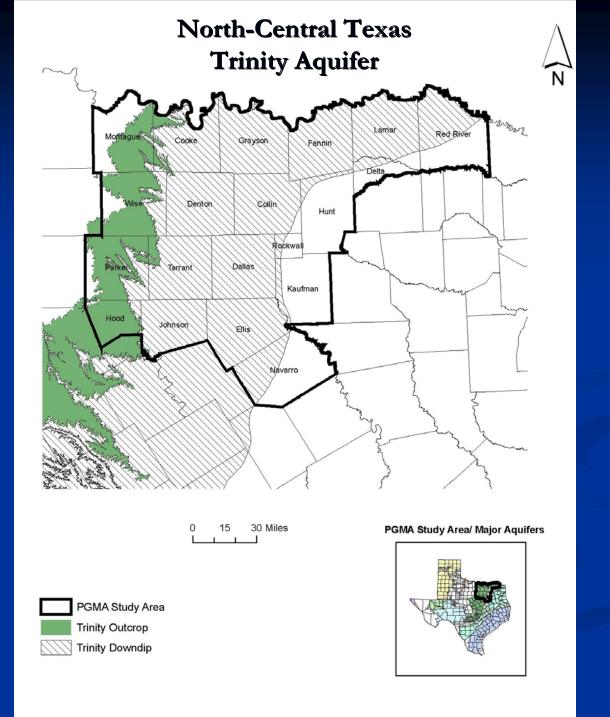




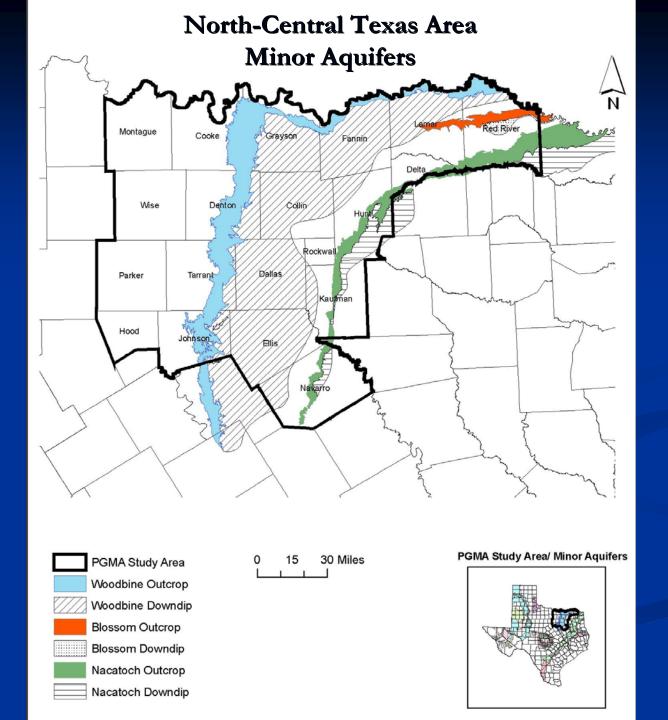
#### North-Central Texas Area Study and Area Overview

- Update of study and report done in 1990
- 20-county study area for northern Trinity and Woodbine aquifers
- Notice to ~1,200 stakeholders in July 2005; fewer than 30 responses
- Population projected to increase from ~5.5 million in 2000 to ~9.5 million by 2030
- Total water use projected to increase from ~1.36 million ac.ft/yr to ~1.85 million ac.ft/yr
- Supply: 62% in-area reservoirs; 26% out-of-area reservoirs; 5% groundwater; 5% reuse; 2% local irrigation & privately owned surface water











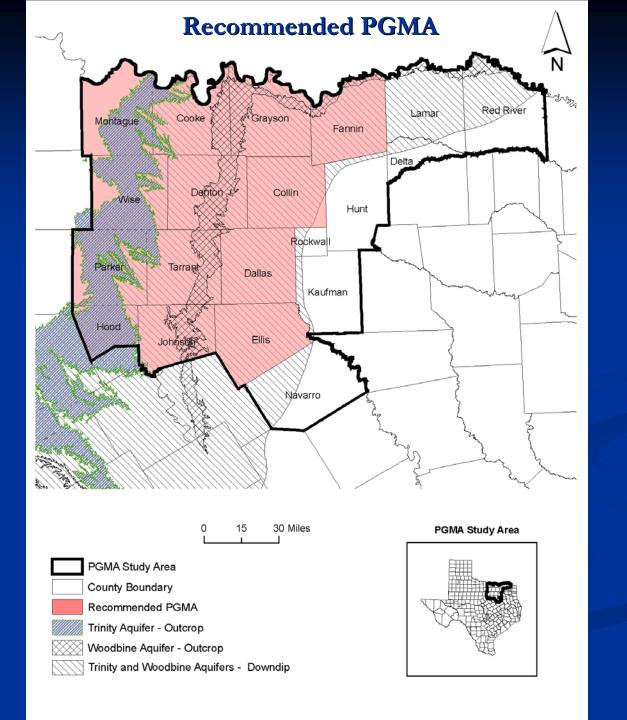
#### **Select Conclusions**

- Primary natural resource concerns are the inundation of valued habitat by new reservoirs
- Water level declines/reduction of artesian pressure caused by continued removal of water from aquifer storage is a regional groundwater problem
- Increased reliance on Trinity and Woodbine aquifers adopted by over 60 water user groups; decreased reliance on aquifers by 33 water user groups cumulative effect is increase reliance and higher groundwater pumpage through 2030
- Water demands for natural gas exploration should be considered additional/new demands
- Continued use of groundwater is critical for rural water suppliers, individual businesses, industries, homeowners, and small municipalities

#### **Draft Recommendations**

- 13 of 20 counties should be designated as a priority groundwater management area
- GCD programs would benefit groundwater users
- A regional GCD to include the 13 counties
  - > Includes greatest areal extent of the aquifers
  - > Allows adequate funding through well production fees
  - Most cost-effective by allowing for single groundwater management program
  - Simplifies regional groundwater management planning responsibilities
- Local governments consider using Local Gov. Code authority to help address rapidly developing areas



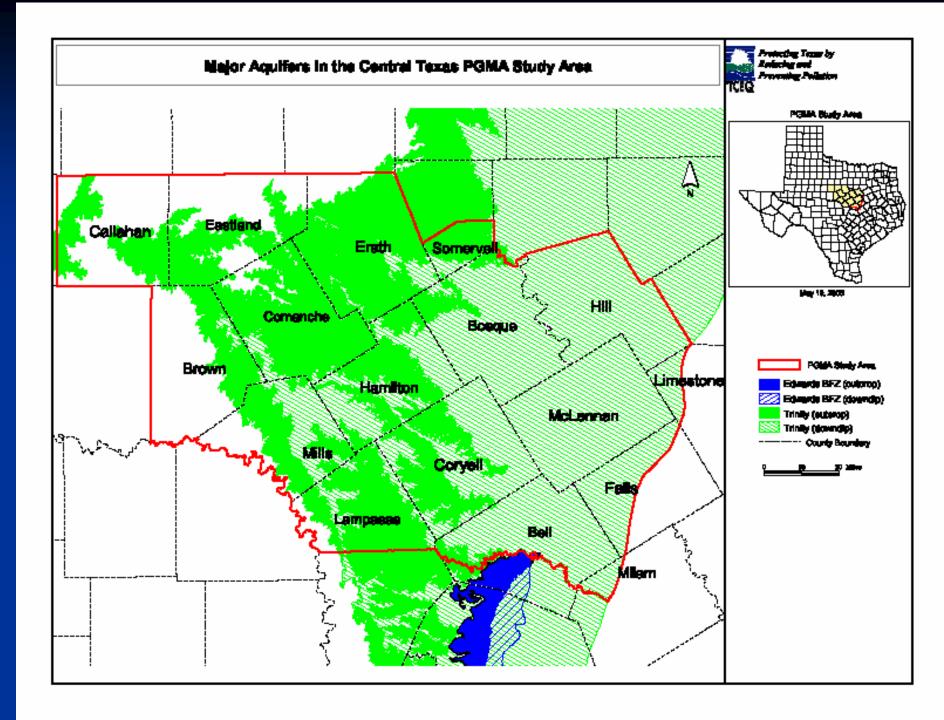


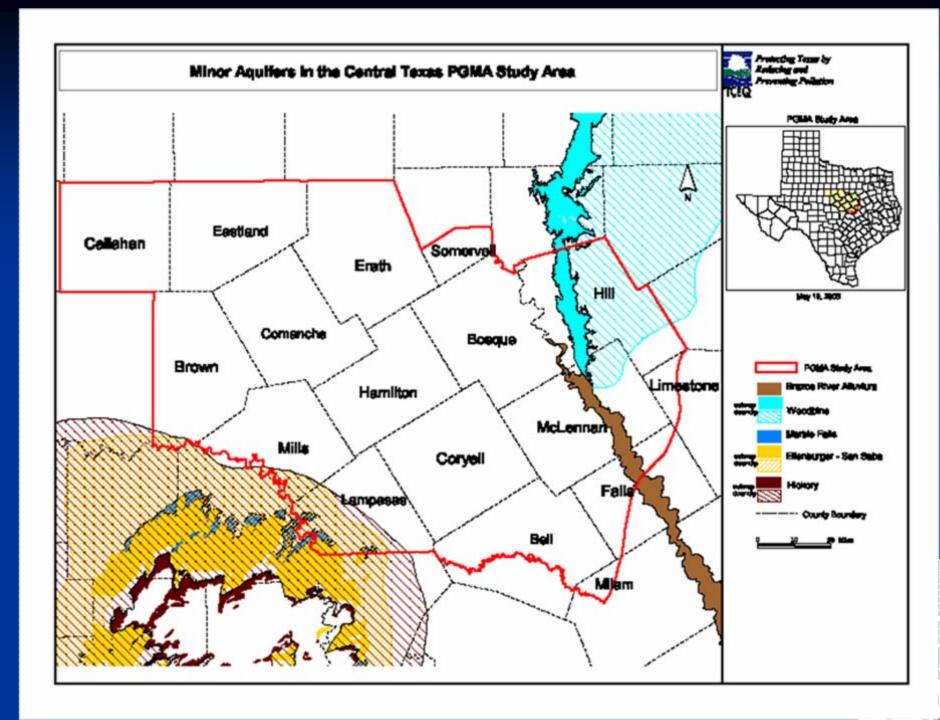


## Next Steps

- December 14, 2006 notice of draft report sent to ~1,350 stakeholders
  - > April 30, 2007 end of comment period on draft report
  - Notice will go out again when report finalized
- Will be referred to State Office of Administrative Hearing (SOAH)
  - SOAH will name parties and conduct contested case hearing in area
  - > SOAH administrative law judge will send recommendations to the three-member TCEQ for decision
  - > SOAH not subject to any set timeframe
- TCEQ order public agenda hearing in Austin
  - > To designate all, part, or none of area and recommend GCD creation
  - > Sent to each commissioners court and others
  - > Educational steering committees appointed by commissioners courts
  - > Educational program by Texas Cooperative Extension
- Date of order starts two-year, local-action GCD creation clock







# Central Texas Area Study and Area Overview

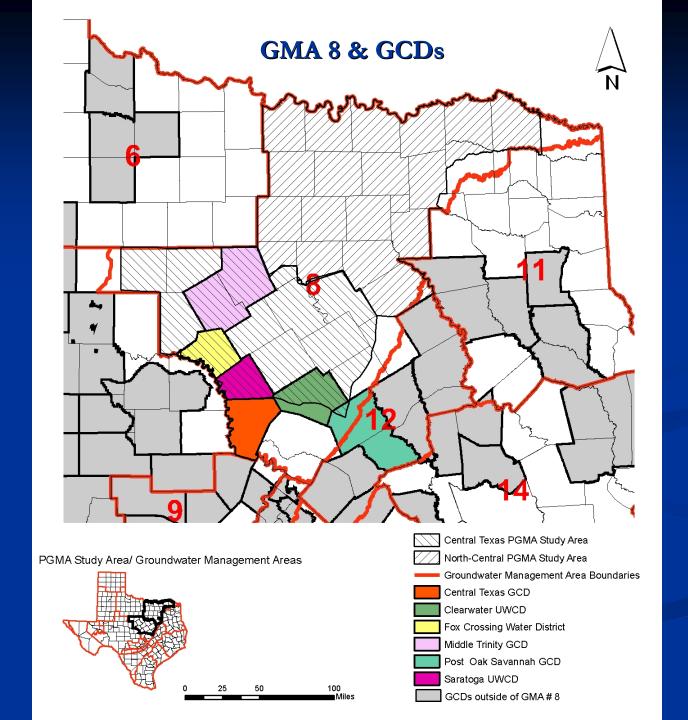
- Also Update of study and report done in 1990
- 16-county study area primarily for Trinity aquifer
- Four groundwater conservation districts exist within the study area
  - Clearwater UWCD (Bell County)
  - Fox Crossing WD (Mills County)
  - Middle Trinity GCD (Comanche and Erath counties)
  - Saratoga UWCD (Lampasas County
- Notice mailed to ~532 stakeholders in October, 2004; five responses
- Population projected to increase from ~ 771,000 in 2000 to ~ 1.02 million by 2030
- Total water use projected to increase from ~ 337,000 acft/yr to ~ 417,000 acft/yr
- Supply: 85% surface water; 15% groundwater

#### **Select Conclusions**

- Primary natural resource concern is the decline of water level and its affect on various habitats
- Water level declines/reduction of artesian pressure caused by continued removal of water from aquifer storage is a regional groundwater problem
- Strategies to increase reliance on Trinity aquifer adopted for six water user groups
- Water demands for natural gas exploration should be considered additional/new demands
- Continued use of groundwater is critical for rural water suppliers, individual businesses, industries, and homeowners, and, small municipalities

The report and recommendations will be completed this year







### Thank You



Steve Musick512-239-5552smusick@tceq.state.tx.usKelly Mills512-239-4512kmills@tceq.state.tx.usLeon Byrd512-239-0540cbyrd@tceq.state.tx.us

