



# Texas Water Development Board

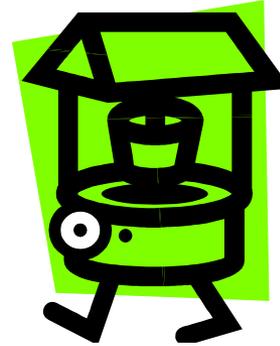
*Mission:*

“Sustainable, and affordable,  
~~quality~~ water for Texans, ~~our~~  
~~economy~~, and ~~our~~  
~~environment.~~”

The following presentation is based upon professional research and analysis within the scope of the Texas Water Development Board’s statutory responsibilities and priorities but, unless specifically noted, does not necessarily reflect official Board positions or decisions.

# About the TWDB

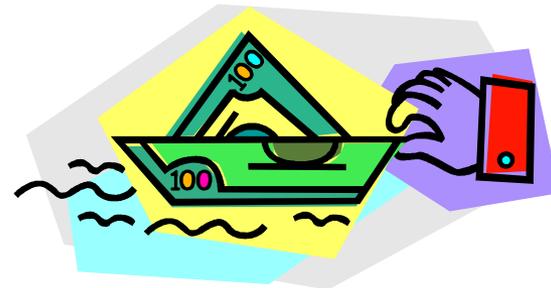
- Data collection



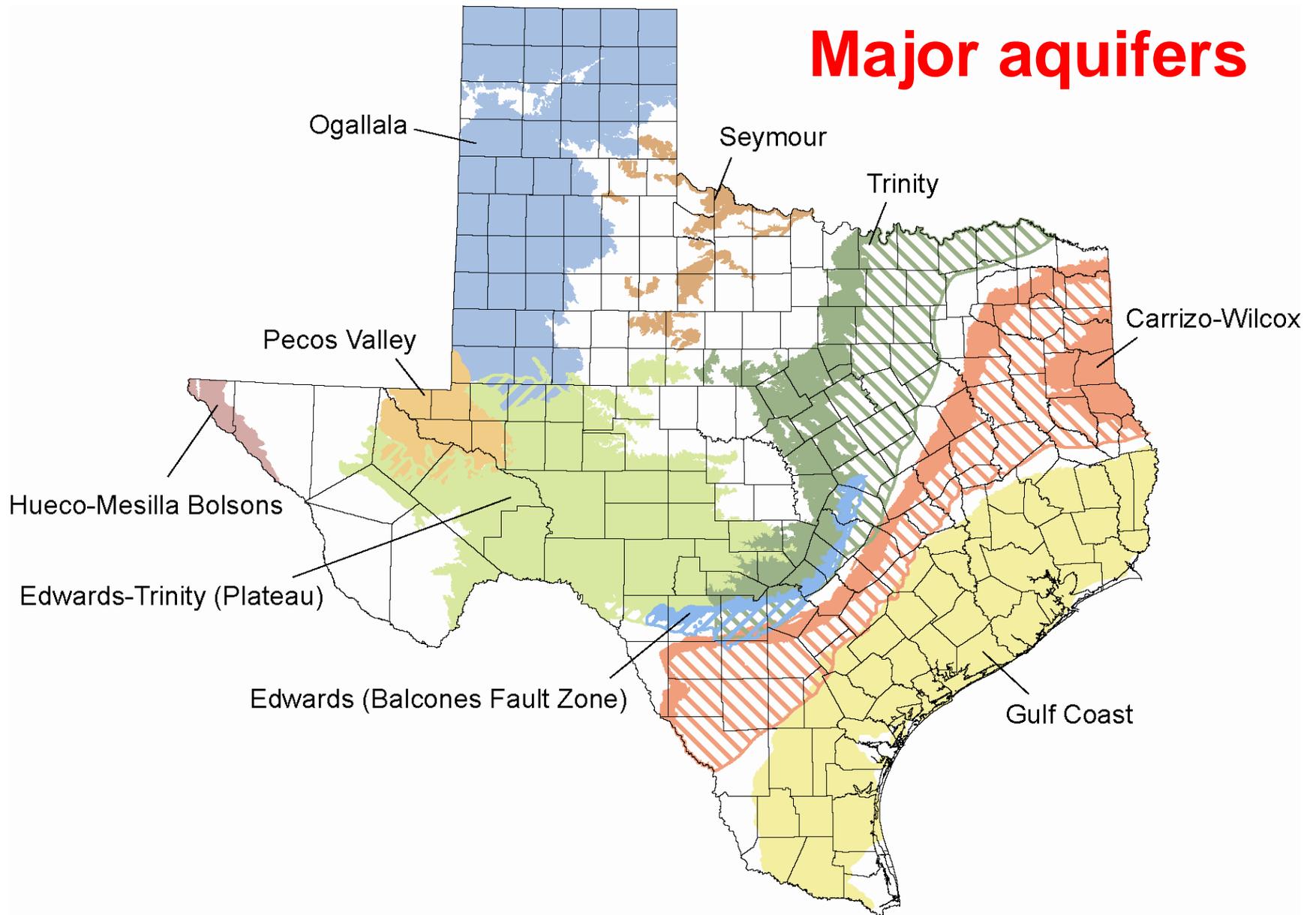
- Water planning



- Grants and loans



# Major aquifers



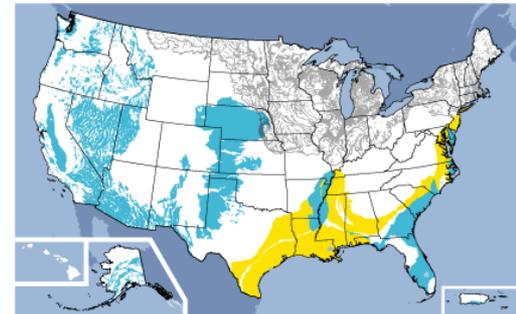
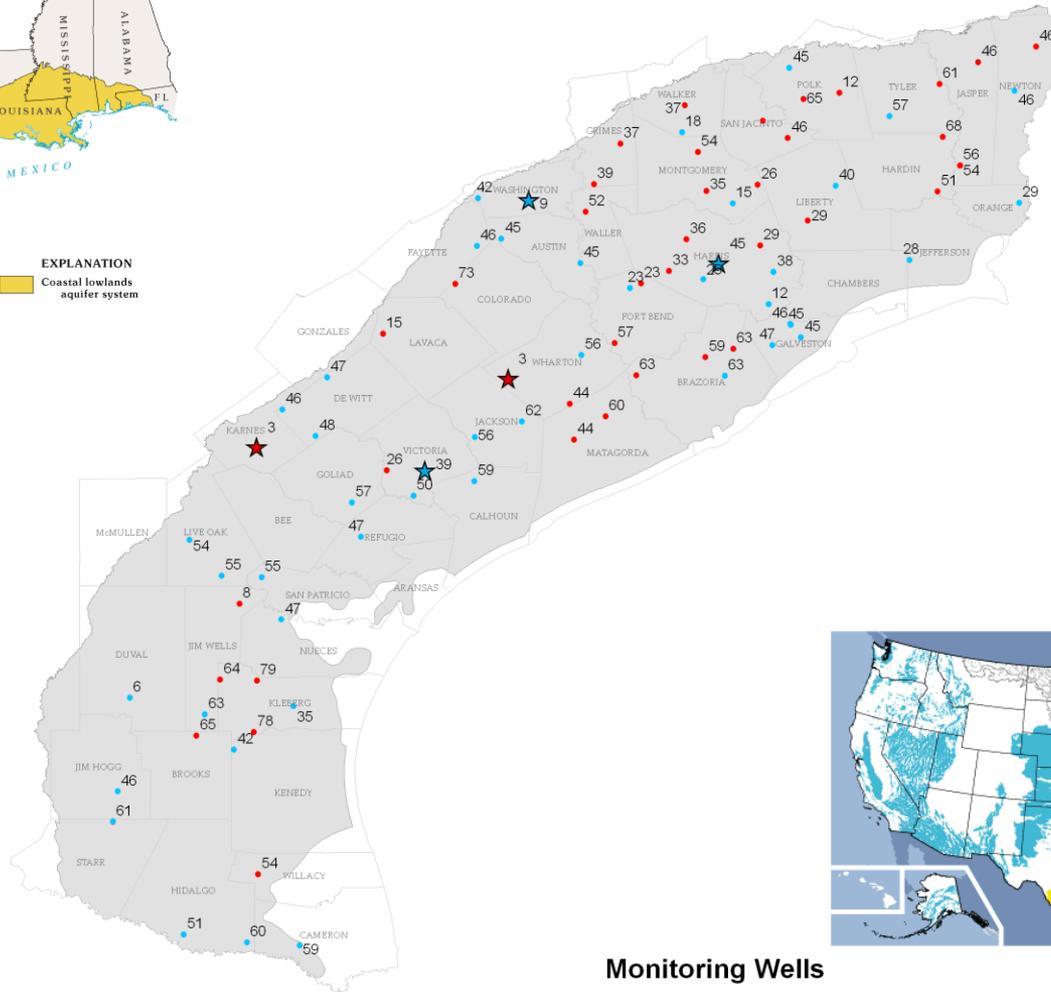
# TWDB Surveillance & Trend Wells in the Gulf Coast Aquifer

## Coastal Lowlands Aquifer System



The Coastal lowlands aquifer system consists of unconsolidated deposits of Tertiary and Quaternary age that yield large quantities of water for public, industrial, and agricultural uses.

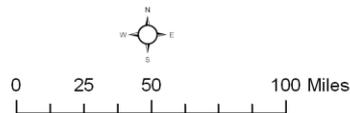
**EXPLANATION**  
 Coastal lowlands aquifer system



### Monitoring Wells

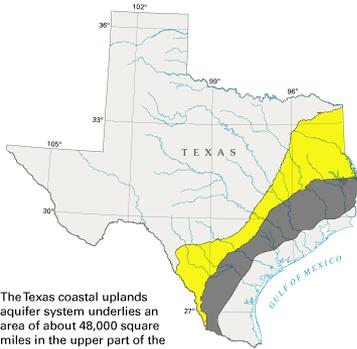
- Targeted
- Unstressed
- ★ Trend wells

Number next to dot indicates length of measurement record (years)



# Texas Water Development Board Surveillance & Trend Monitoring in the Carrizo-Wilcox Aquifer

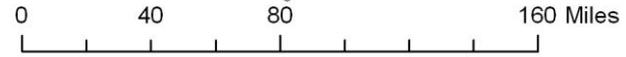
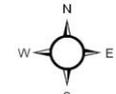
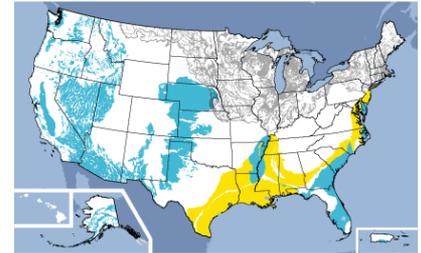
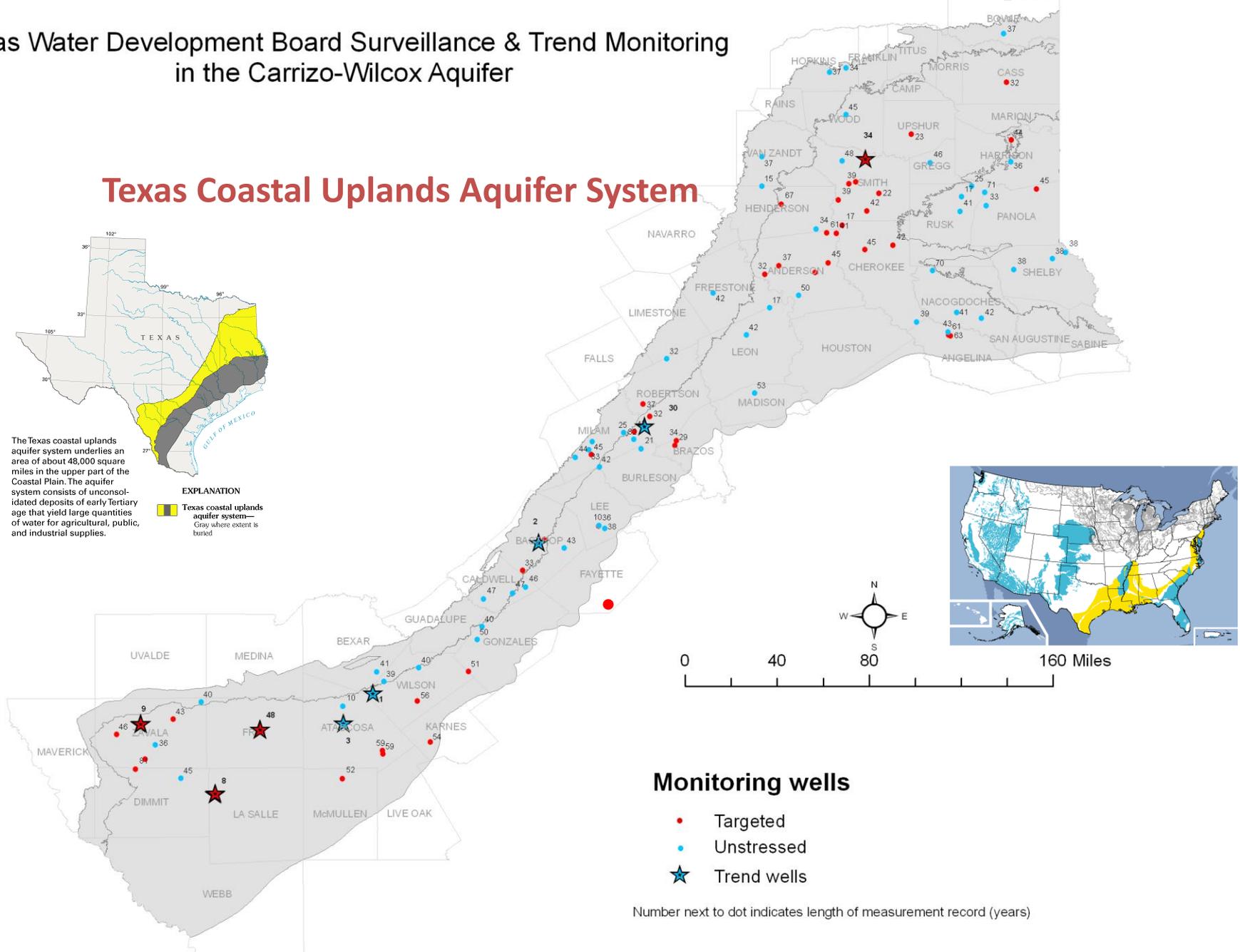
## Texas Coastal Uplands Aquifer System



The Texas coastal uplands aquifer system underlies an area of about 48,000 square miles in the upper part of the Coastal Plain. The aquifer system consists of unconsolidated deposits of early Tertiary age that yield large quantities of water for agricultural, public, and industrial supplies.

### EXPLANATION

- Texas coastal uplands aquifer system—
- Gray where extent is buried



### Monitoring wells

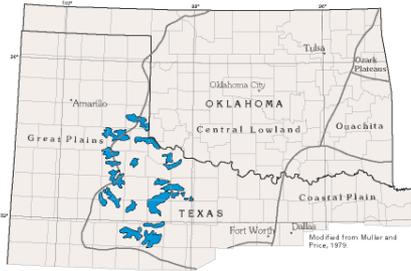
- Targeted
- Unstressed
- ★ Trend wells

Number next to dot indicates length of measurement record (years)



# TWDB Surveillance and Trend Wells in the Seymour Aquifer

## Seymour Aquifer



**EXPLANATION**

- Seymour aquifer
- Physiographic province boundary and name

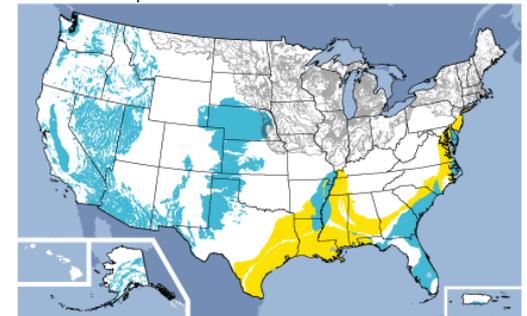
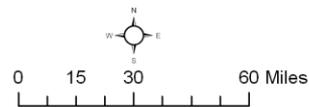
**Figure 32.** Isolated patches of alluvial deposits in 20 counties in north-central Texas form the Seymour aquifer. The deposits are erosional remnants of the Seymour Formation.



### Monitoring wells

- Targeted
- Unstressed
- ★ Trend wells

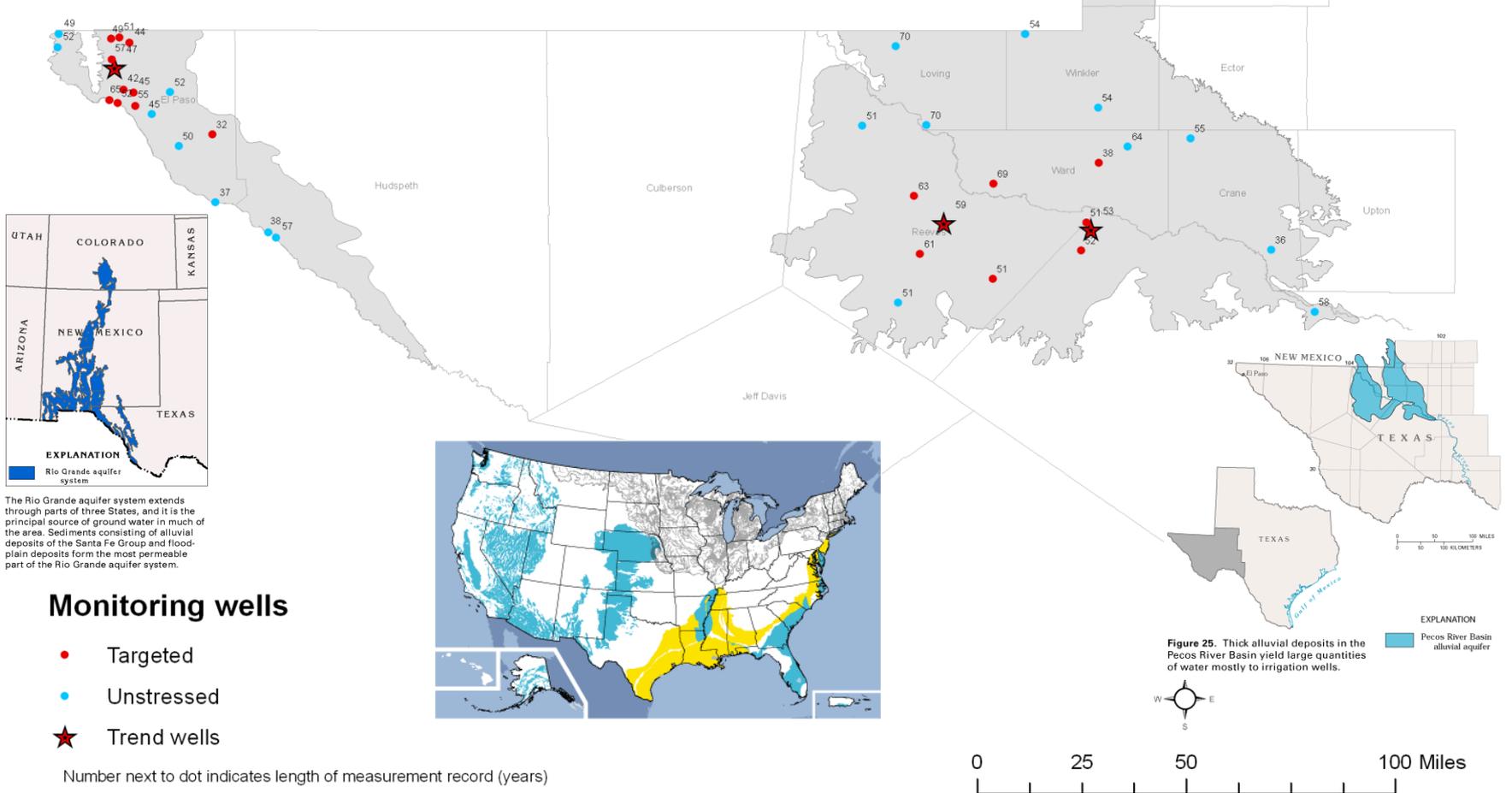
Number next to dot indicates length of measurement record (years)



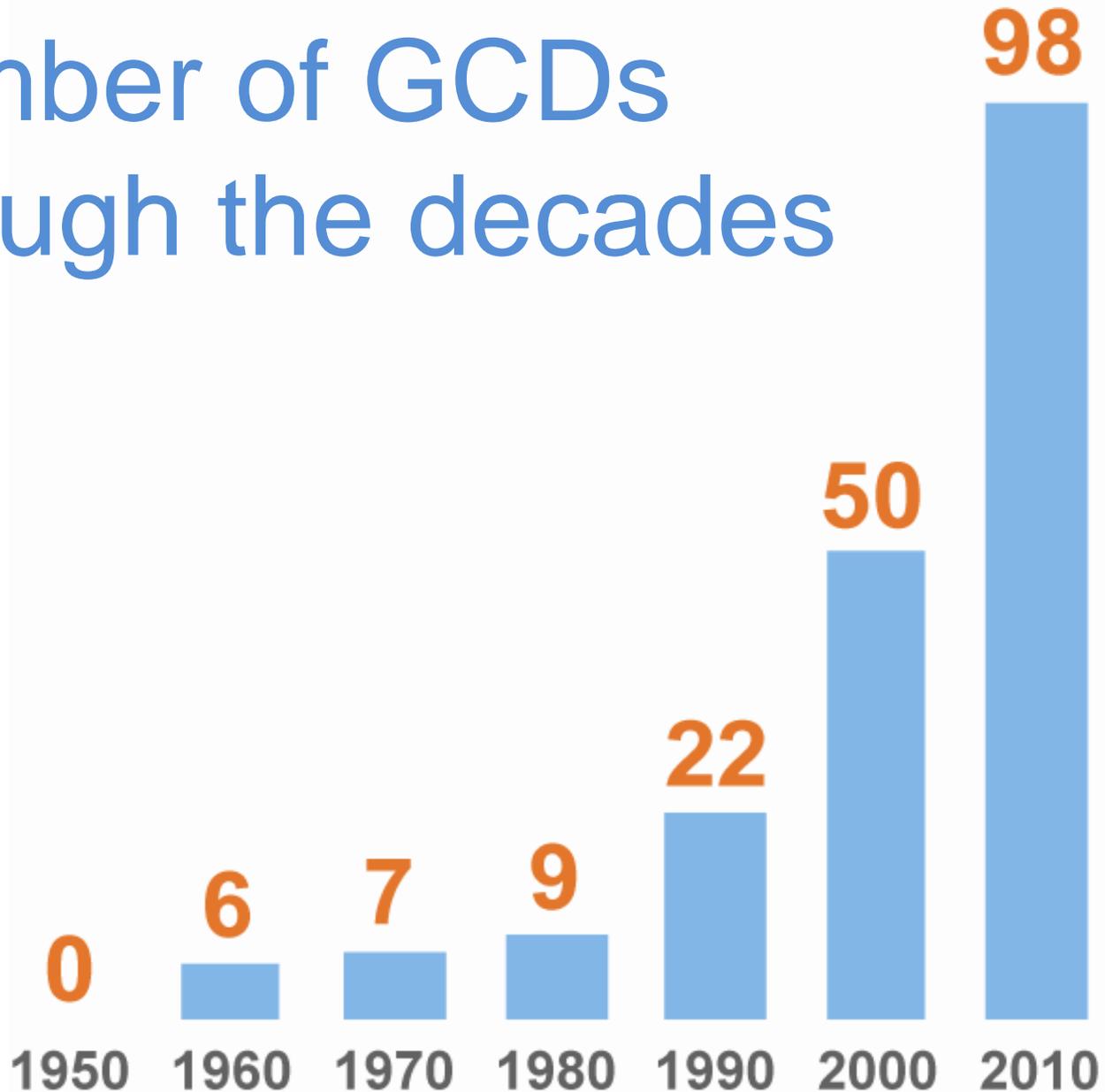
# TWDB Surveillance and Trend Wells in the Hueco-Mesilla Bolsons and Pecos Valley Aquifer

## Rio Grande Aquifer System

## Pecos River Basin Alluvial Aquifer System

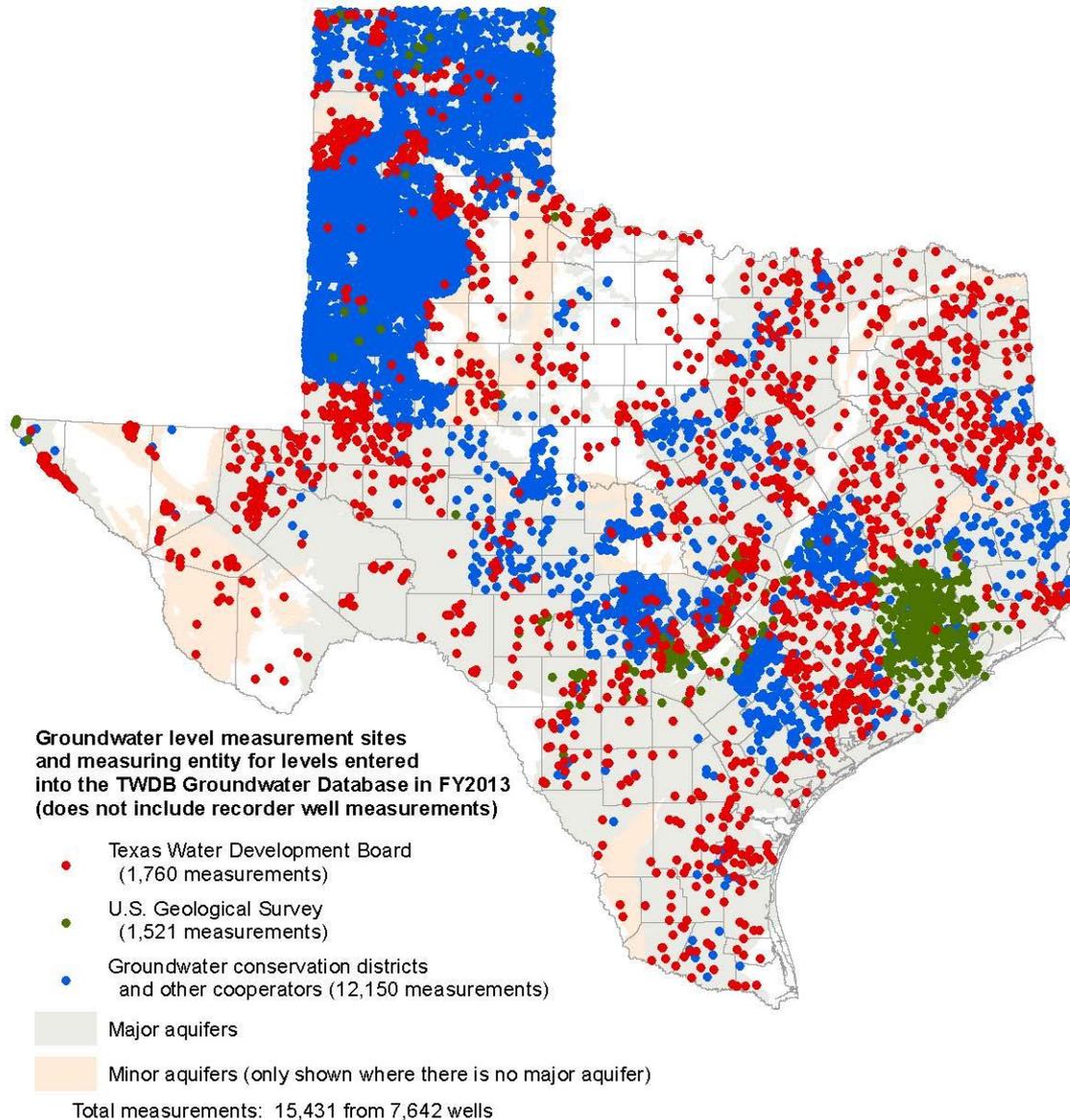


# Number of GCDs through the decades

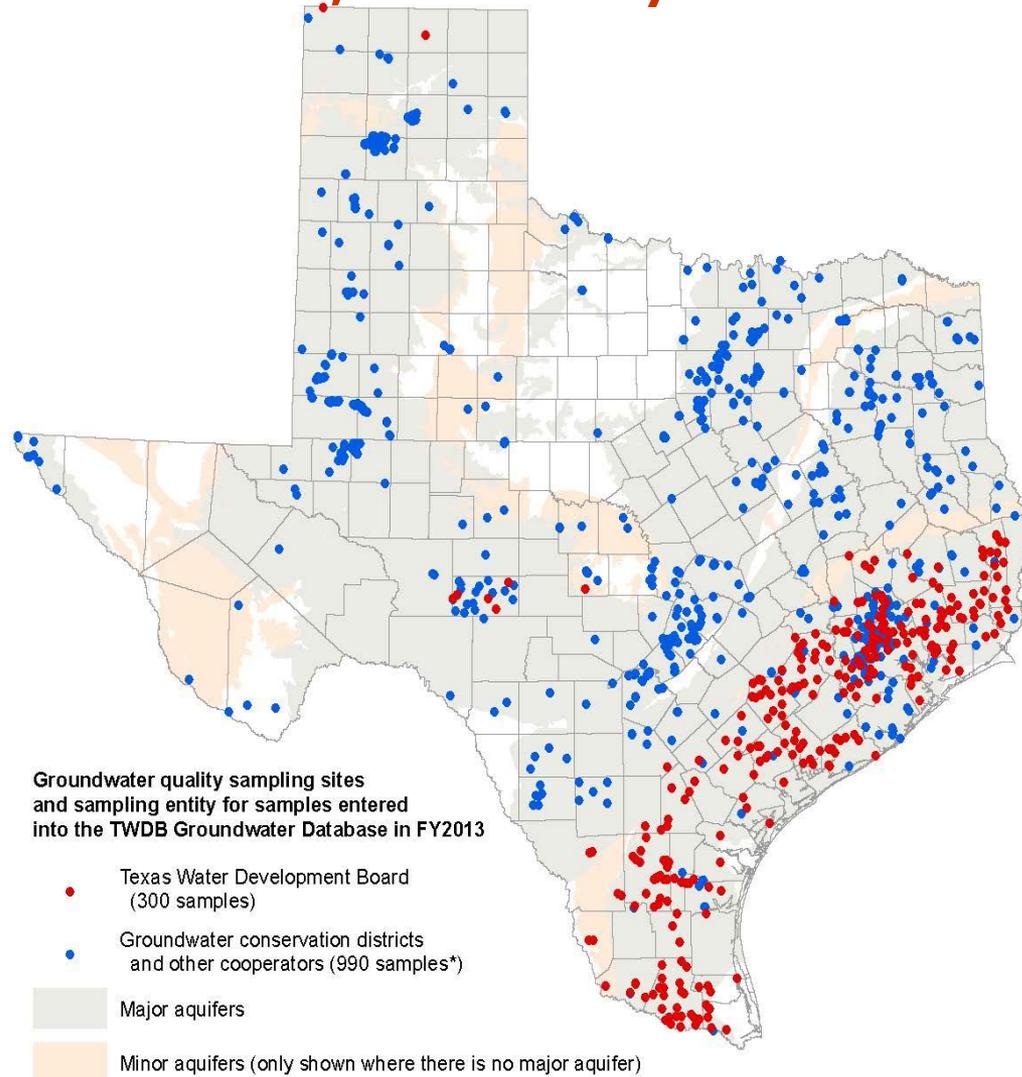




# Wells measured by TWDB & cooperators, fiscal year 2013



# Wells sampled by TWDB & cooperators, fiscal year 2013



Total samples entered: 1,290 from 1,281 wells  
\* 908 of these samples came from TCEQ raw water analyses

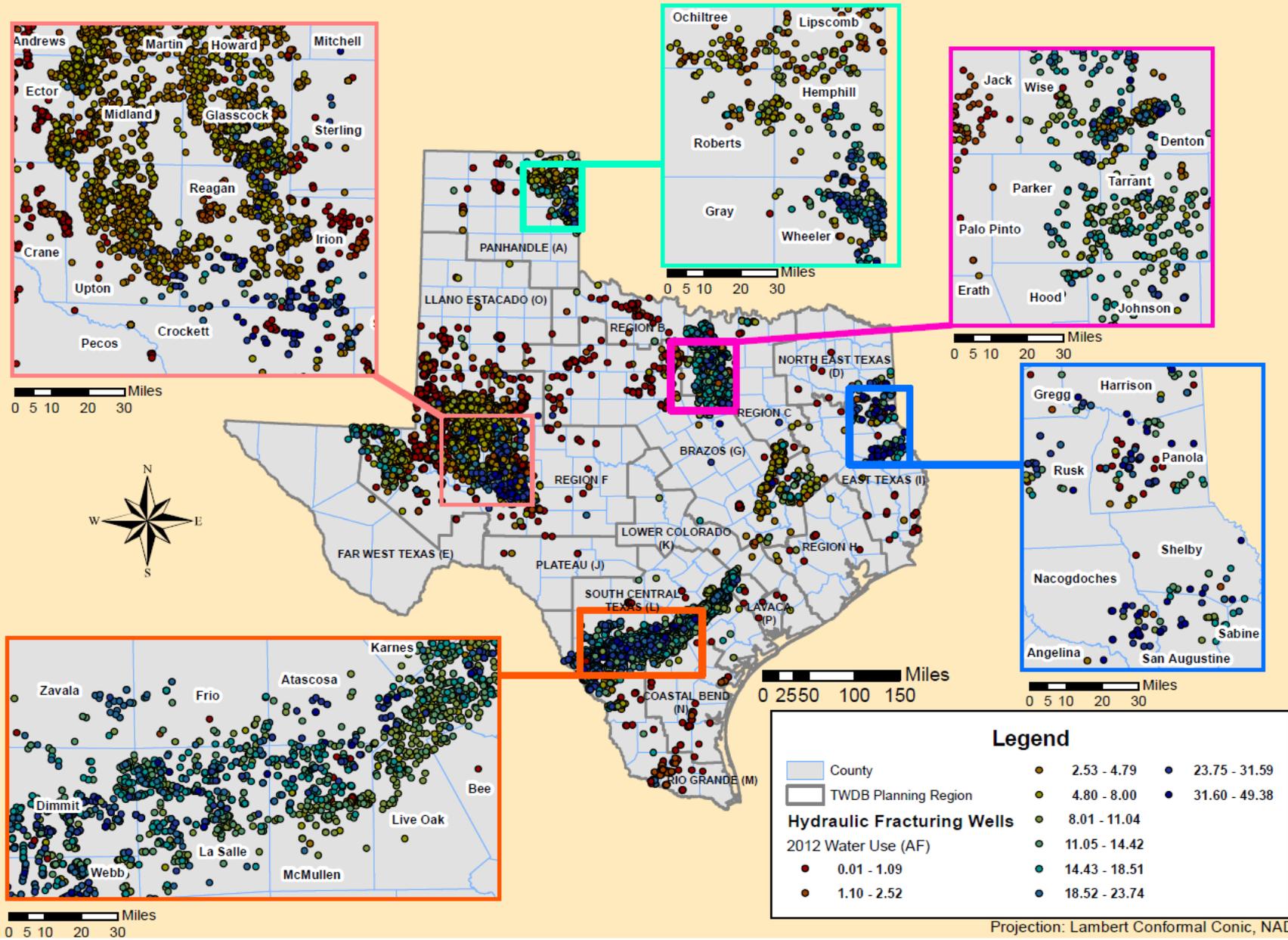
# Changes since 2010

- RIF – Monitoring Section lost 3 FTEs in the summer of 2011
- Reduced lab analysis contract from \$386,000 to \$196,000
- Capital expense budget eliminated for purchase of automatic recorders, fiscal years 12 – 14
- Drought sets in
- Fracking continues

# Two burned vehicles in the Panhandle, December, 2010 & Jan, 2011



# Hydraulic Fracturing Water Use Estimates in Texas: 2012



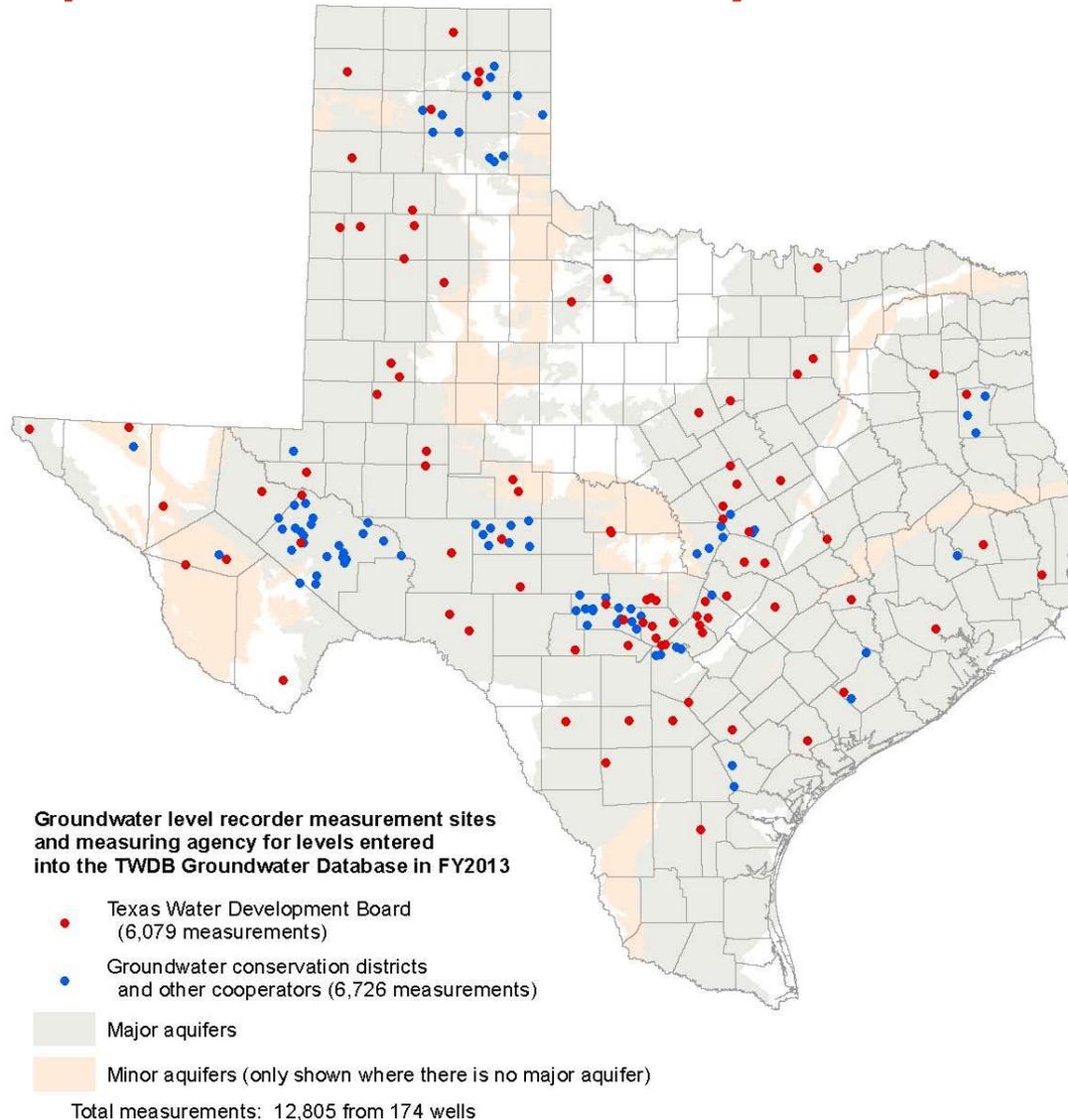
# Changes since 2013

- SWIFT passage authorizing \$2 billion from the “rainy day fund” to be used for implementation of water management strategies
- TWDB Board (and other personnel) changes
- Funding found for groundwater & submitted driller’s report databases and online mapping application restructuring(?)
- FY15 – 17 budgets to reinstate \$38,000/year for recorder equipment(?)
- Lab analysis contract will not be further reduced(?)

# Network Updates

- More cooperating districts send us water levels
- 35 additional automatic recorder sites
- Identification of 900+ public supply wells with “raw” water quality and incorporation of their data in our database
- Recognition of a Groundwater Data Team within the Monitoring Section
- Water Data for Texas!

# Recorders operated by TWDB & cooperators, fiscal year 2013



# <http://www.waterdatafortexas.org/reservoirs/statewide>

RESERVOIRS

GROUNDWATER

DROUGHT

Water Data  
for Texas



STATEWIDE

BY PLANNING AREA ▾

BY RIVER BASIN ▾

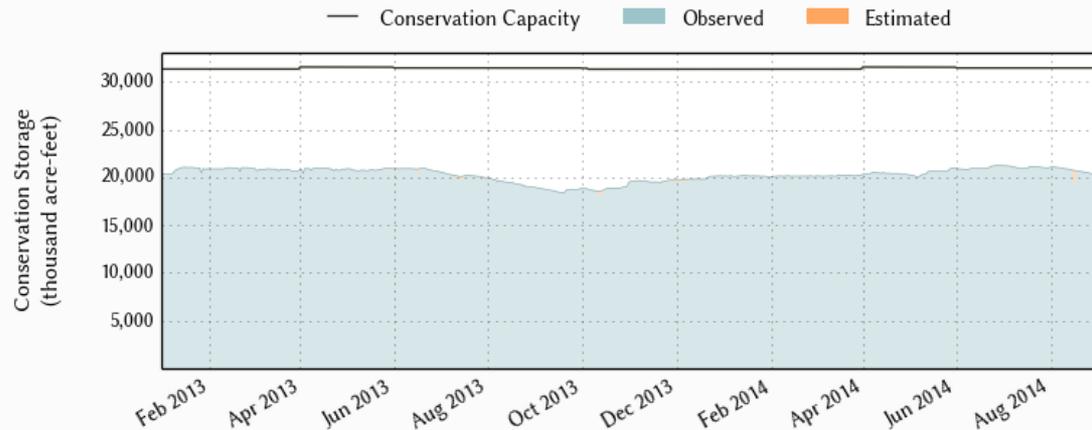
BY MUNICIPAL AREA ▾

BY CLIMATE REGION ▾

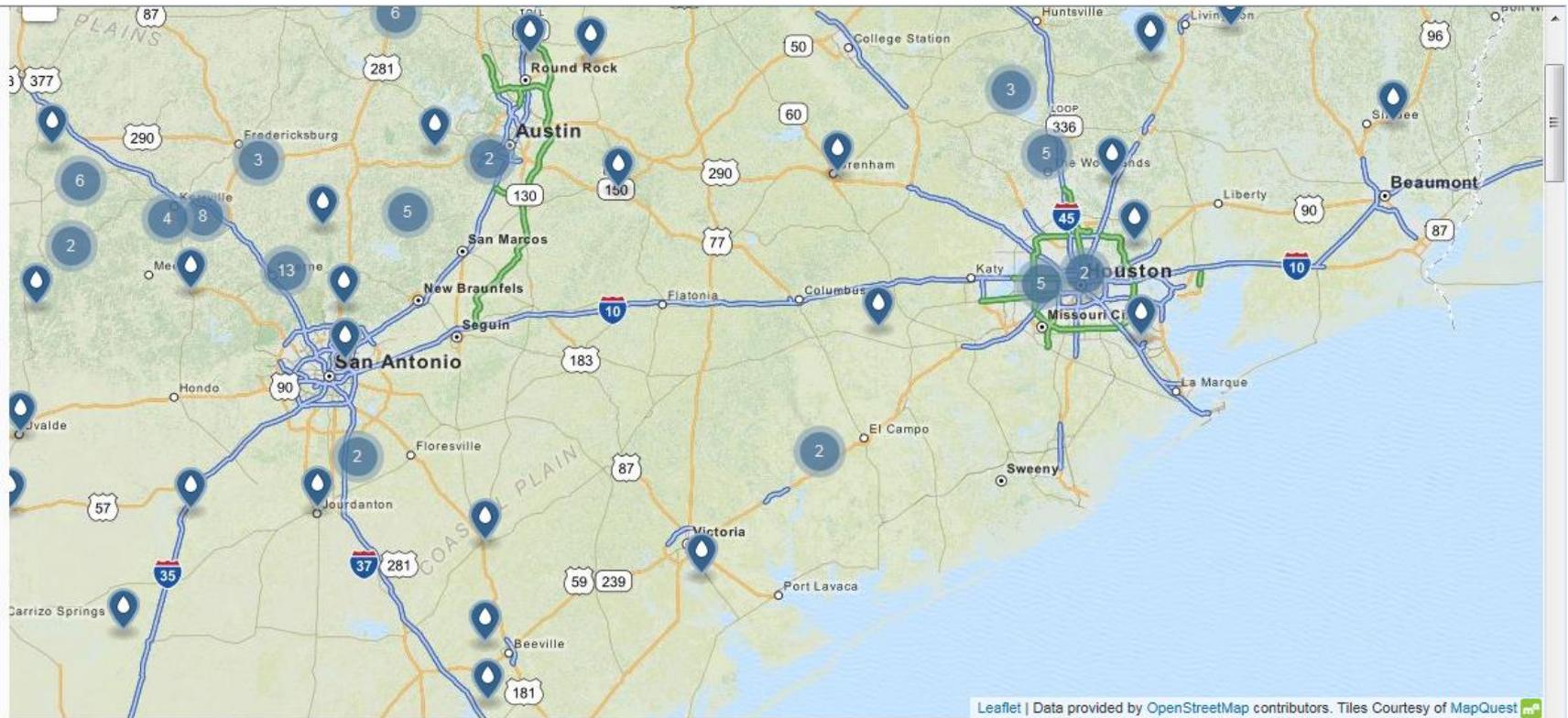
ABOUT ▾

## Texas Reservoirs

Monitored Water Supply Reservoirs are 64.0% full on 2014-09-08







All data are provisional and subject to revision. The Texas Water Development Board (TWDB) specifically disclaims any and all liability for any claims or damages that may result from providing these data.

Download Recent Conditions (only active wells): [csv](#), [json](#)

Download Well Metadata: [kmz \(Google Earth\)](#), [geojson](#)

## Currently Active Wells

County	State Well Number	Aquifer	Aquifer Type	Entity/Cooperator	Data Transmission	Latest Transmission Date	Daily High Water Level (feet below land surface)
Armstrong	<a href="#">0653401</a>	Ogallala	Unconfined	Panhandle GCD	Satellite	2014-09-08	166.25
Armstrong	<a href="#">0655504</a>	Ogallala	Unconfined	Panhandle GCD	Satellite	2014-09-08	358.91
Atascosa	<a href="#">7804508</a>	Carrizo-Wilcox	Confined	Texas Water Development Board	Satellite	2014-09-08	227.79
Bailey	<a href="#">1051909</a>	Ogallala	Unconfined	Texas Water Development Board	Satellite	2014-09-08	147.22
Bandera	<a href="#">6912206</a>	Edwards-Trinity	Unconfined	U.S. Geological Survey <sup>1</sup>	Satellite	2014-09-08	251.57