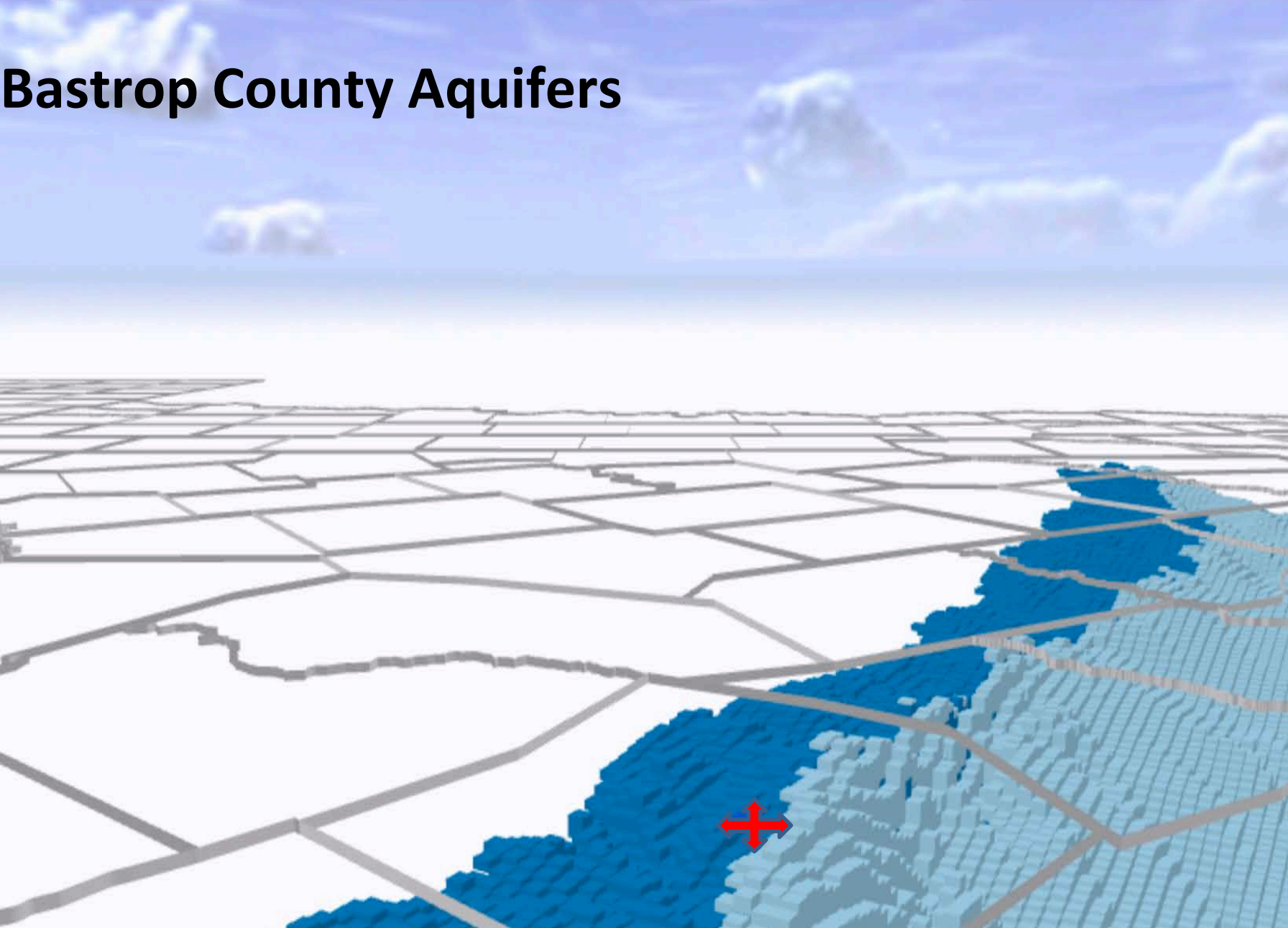




# Bastrop County Aquifers



## Information

**GAM Lyrs\_6-8\_ - Wilcox  
Group\_Gen175Shape2**

### Attributes

CellColumn	94
CellRow	30
County	Bastrop
DEM (Average Surface Elevation)	498
Layer 5 Bottom	Does not exist
Layer 5 Thickness	Does not exist
Layer 5 Top	Does not exist
Layers (6-8) Bottom	-840
Layers (6-8) Thickness	1338
Layers (6-8) Top	498
Model Cell Id	1030094

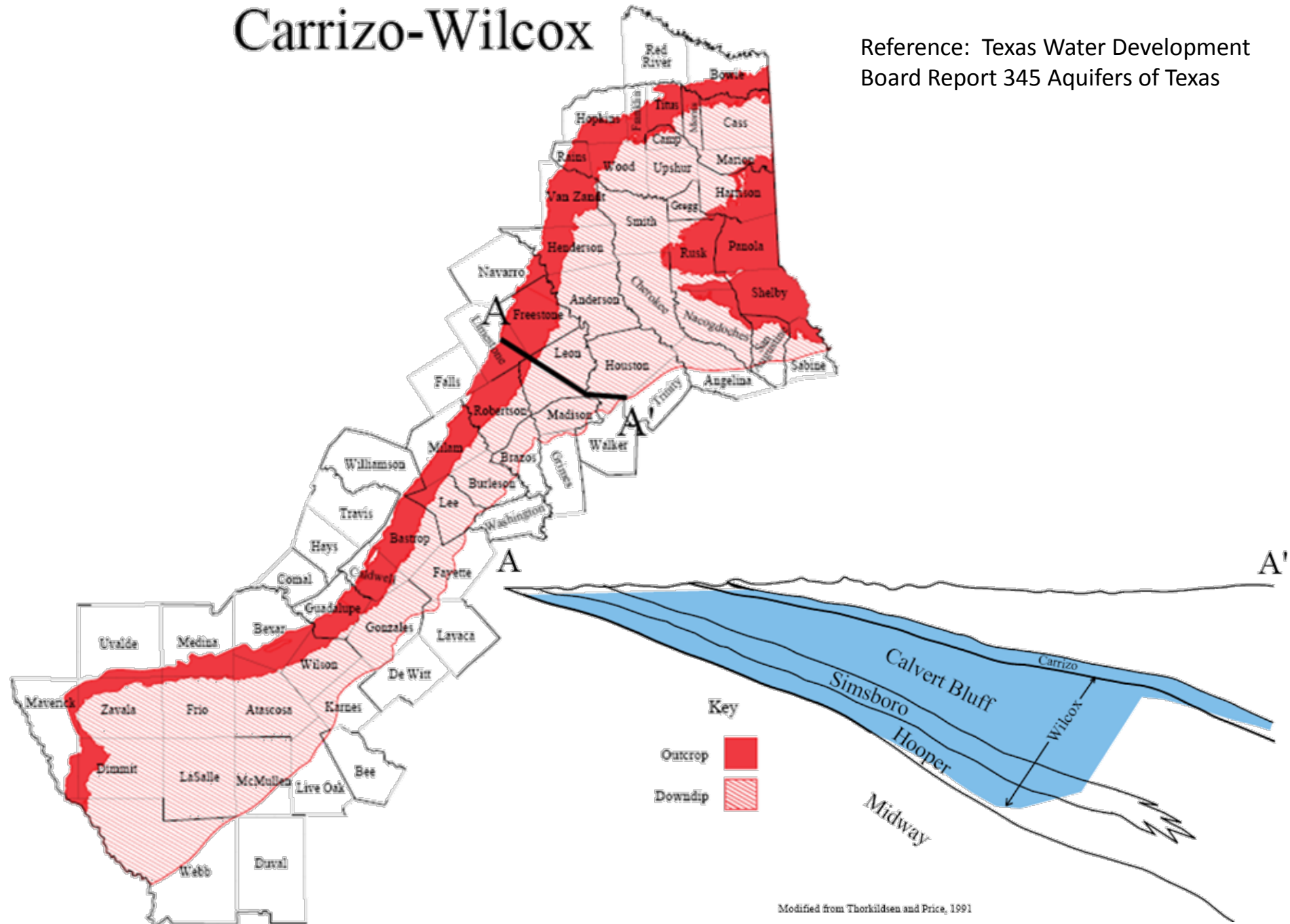
# Carrizo-Wilcox

Reference: Texas Water Development Board Report 345 Aquifers of Texas

The Carrizo-Wilcox aquifers are layered on top of one another. The Calvert Bluff, Simsboro and Hooper comprise the Wilcox Group Aquifer.

The outcrop of an aquifer is where the aquifer recharges and is closest to the surface.

The Wilcox Group aquifers are connected hydrologically and function as a single aquifer.

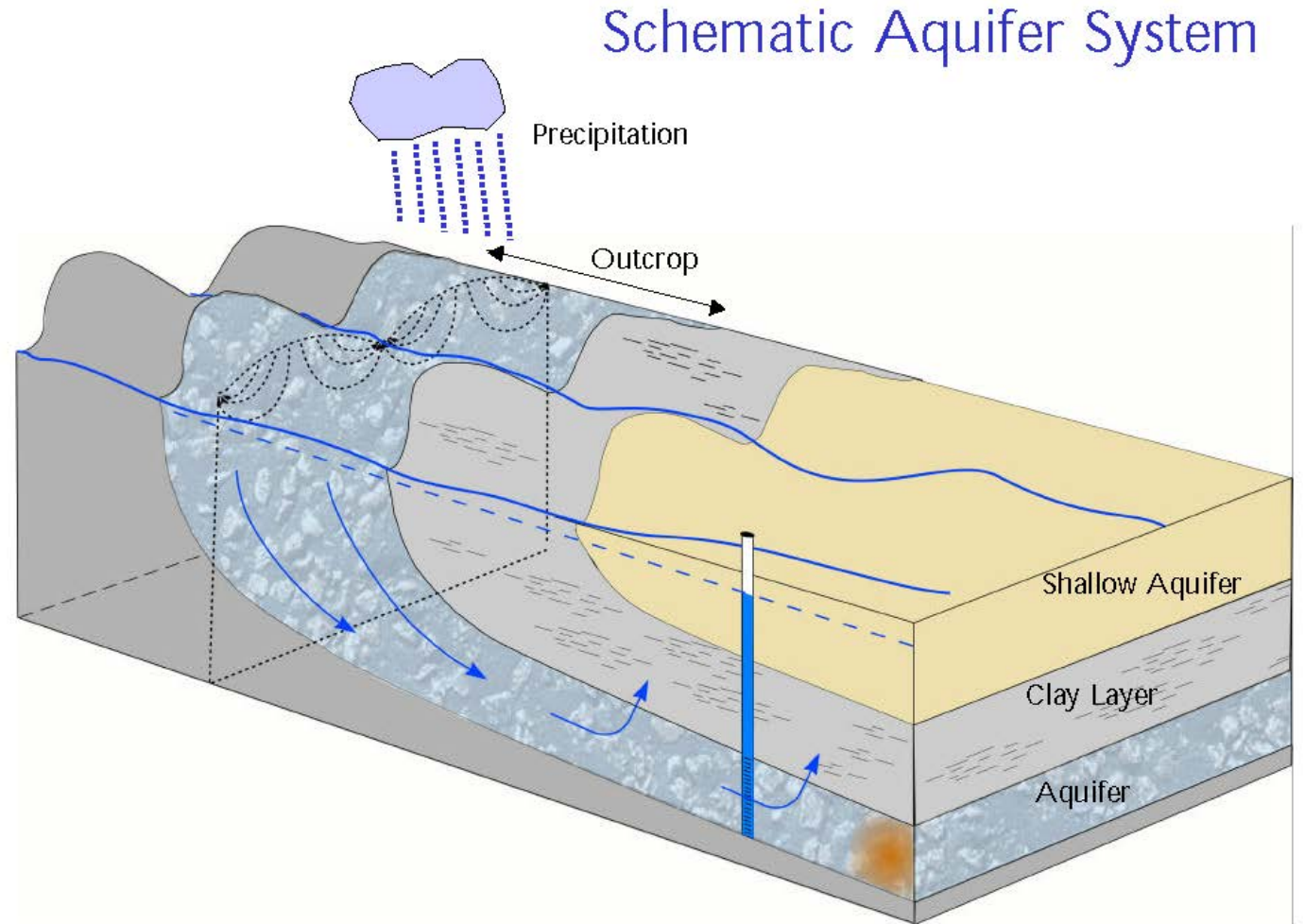


# Leakage in the Wilcox Group

The Carrizo-Wilcox Aquifer is unconfined in the outcrop area (2016 Texas Aquifers Study).

Groundwater in the outcrop of many aquifers is unconfined and under water-table conditions. Water under these conditions is under atmospheric pressure and will rise or fall in response to changes in the volume of water stored (Texas Water Development Board Report 345 Aquifers of Texas, November 1995, page 9).

Interformational leakage from overlying younger beds, can be increased by pumpage. Locally, artificial discharge through pumping wells can alter the direction and rate of the natural flow of ground water (p. 14) (Texas Water Development Board Report 332, Ground-Water Resources of the Carrizo-Wilcox Aquifer in the Central Texas Region).

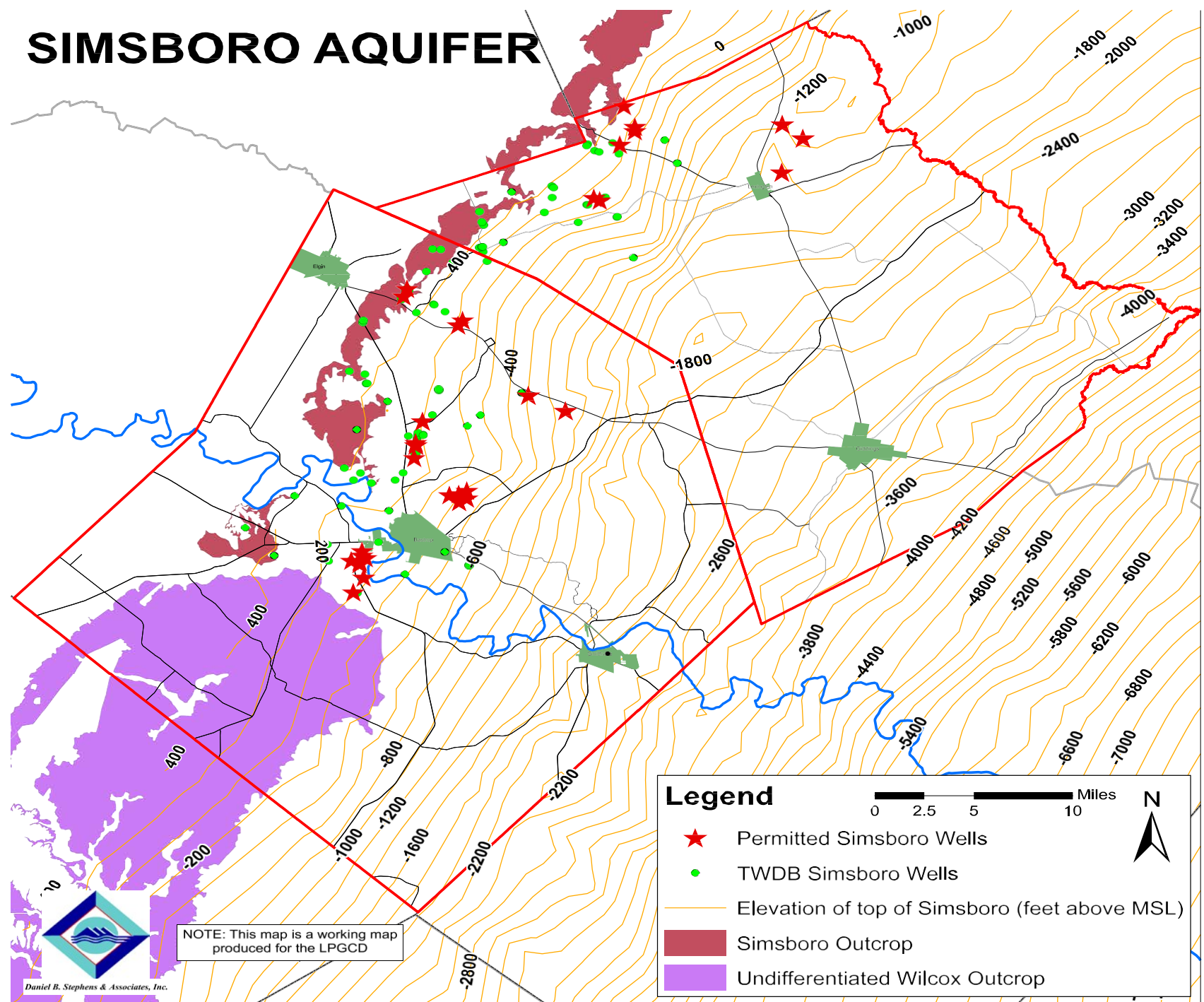


# SIMSBORO AQUIFER

## Where's your property?

Take your well's elevation and subtract it from the contour number on this map.

Say your property is 500' above Mean Sea Level and is located on the -200 contour line.  $500 \text{ minus } -200 = 700$ . Thus, the Simsboro is about 700' below your property.



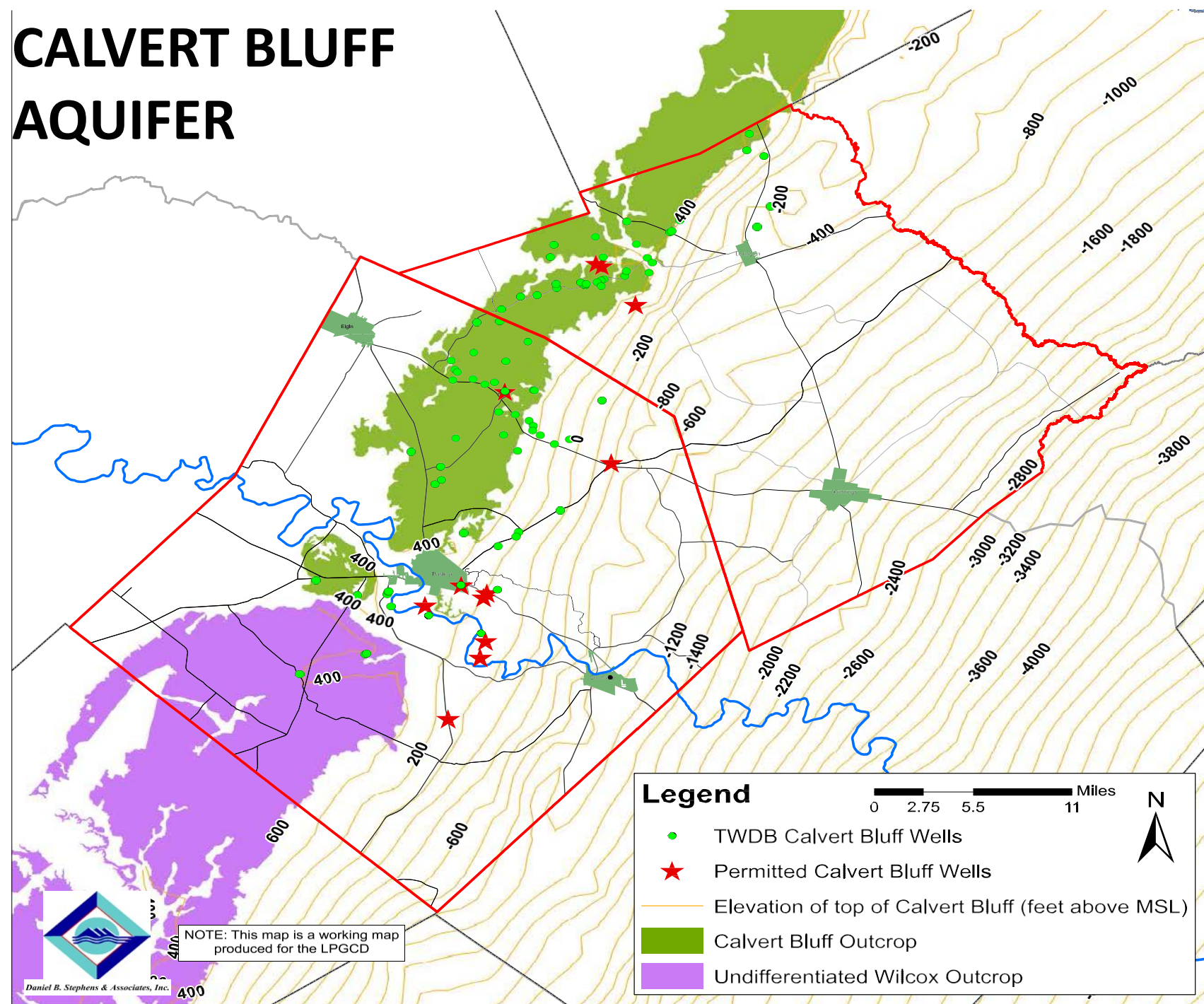
**Legend**

- ★ Permitted Simsboro Wells
- TWDB Simsboro Wells
- Elevation of top of Simsboro (feet above MSL)
- Simsboro Outcrop
- Undifferentiated Wilcox Outcrop

NOTE: This map is a working map produced for the LPGCD

# CALVERT BLUFF AQUIFER

Register your well  
with the Lost Pines  
Groundwater  
Conservation District  
([lostpineswater.org](http://lostpineswater.org)).

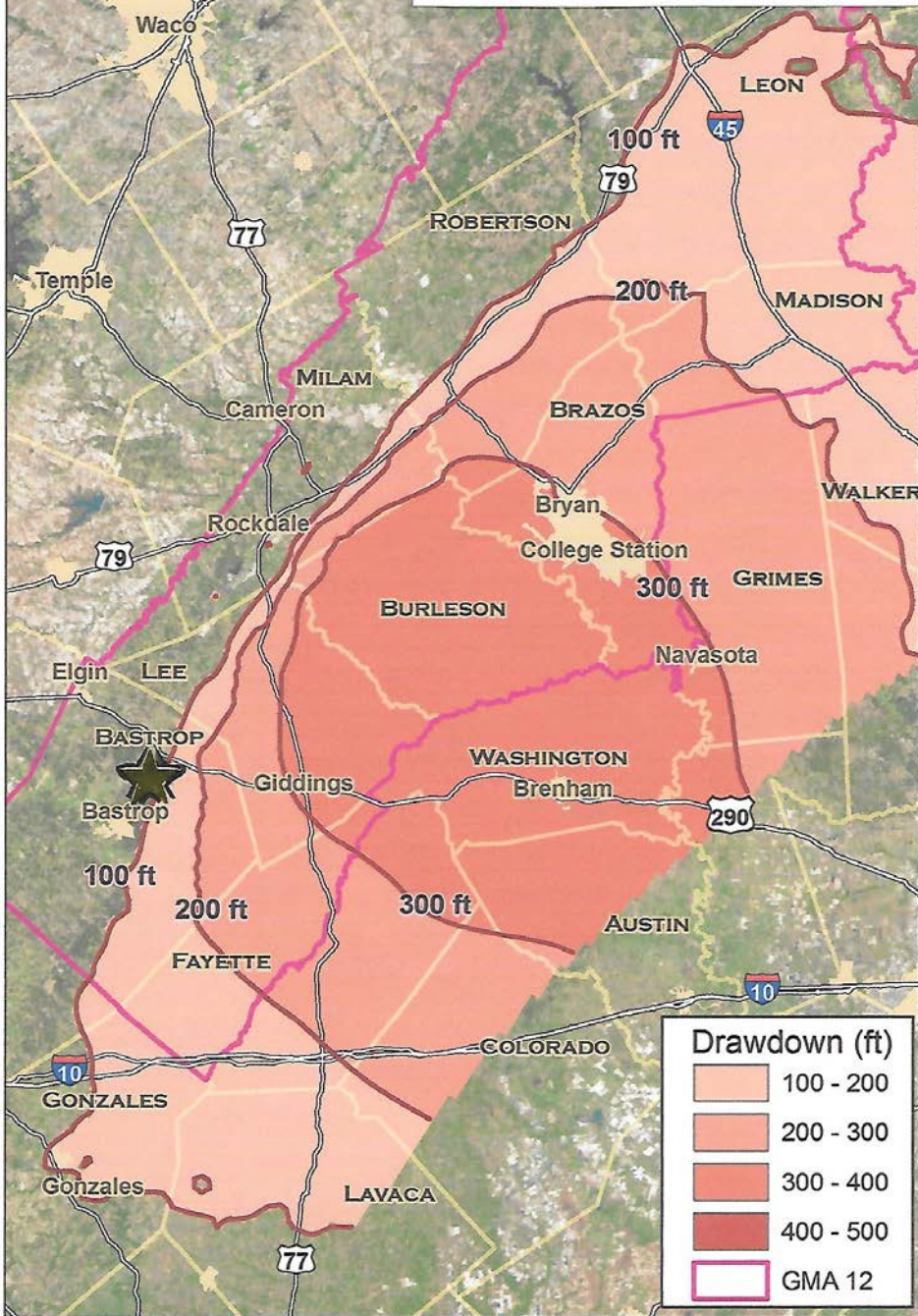


# Groundwater Availability Model (GAM)

- Groundwater availability modeling is the process of developing and using computer programs to estimate future trends in the amount of water available in an aquifer.
- Used to project 50 year drawdowns from requested permits
- Used to develop the Groundwater Conservation District (GCD) 50- year plan

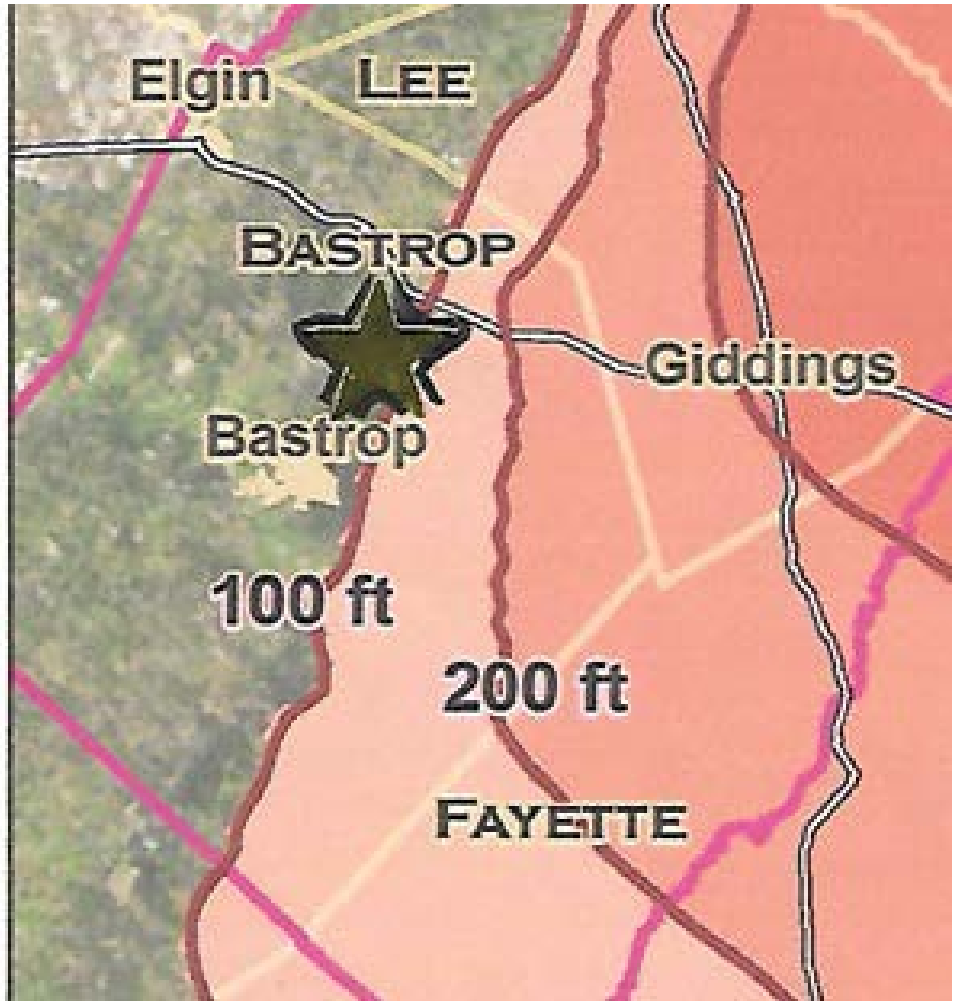
# Calvert Bluff

★ LCRA Griffith League Ranch Project

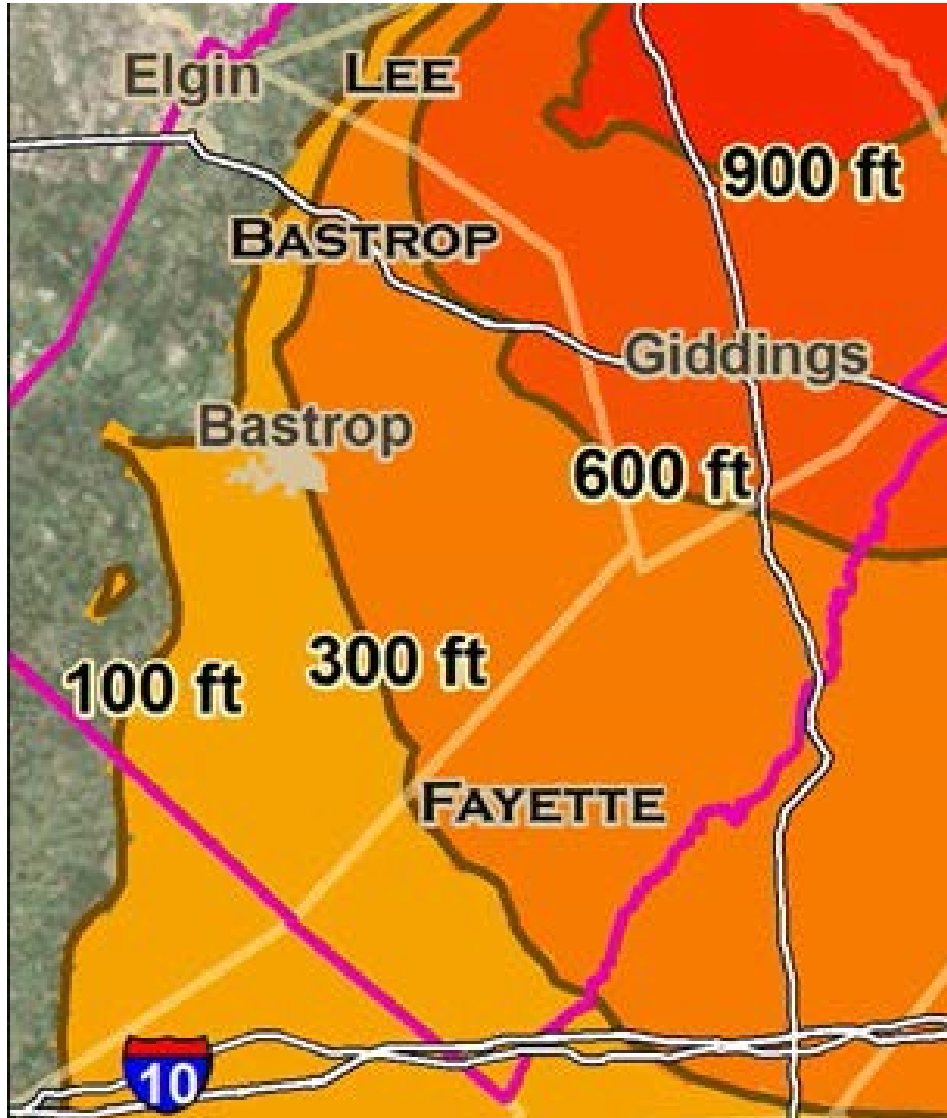


**50 year  
projected  
drawdown in  
Calvert Bluff  
Formation  
from all  
existing  
permits**

Reference: George Rice GAM report



# 50 year drawdown from all existing permits in the Simsboro Formation



Reference: George Rice GAM report

