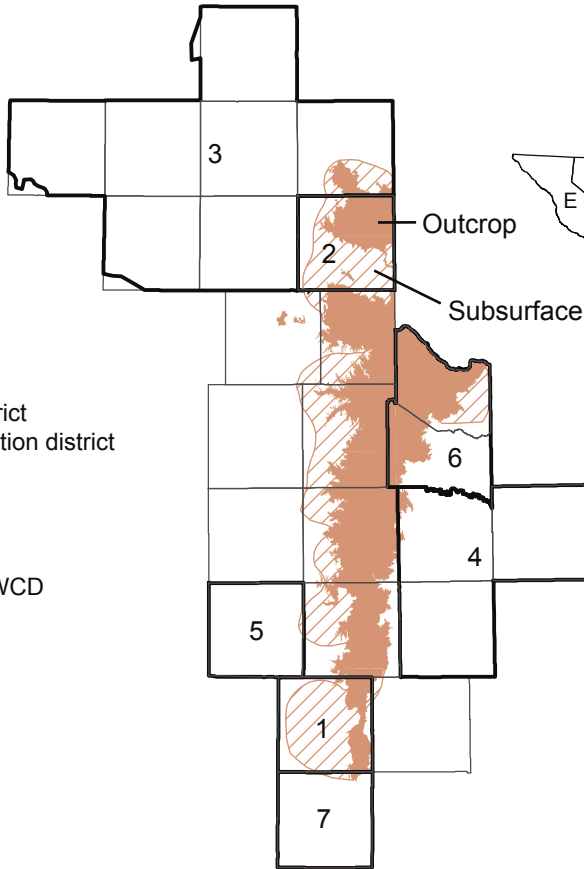
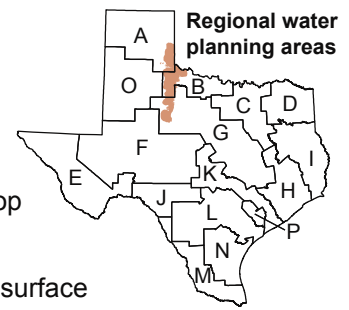
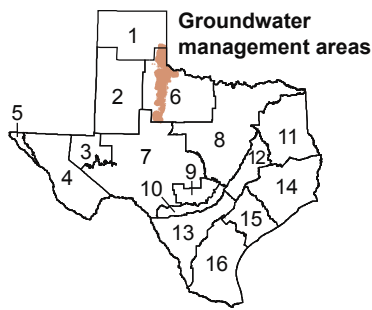


Blaine Aquifer



GCD = Groundwater conservation district
 UWCD = Underground water conservation district

1. Clear Fork GCD
2. Collingsworth County UWCD
3. Panhandle GCD
4. Rolling Plains GCD
5. Salt Fork UWCD
6. Tri-County GCD
7. Wes-Tex GCD

The Blaine Aquifer is a minor aquifer located at the east end of the High Plains in North Texas. It is composed of red silty shale, gypsum, anhydrite, salt, and dolomite. Groundwater occurs mainly in solution channels and caverns within the beds of anhydrite and gypsum that contribute to the overall poor quality of the water. The majority of the groundwater is classified as slightly saline, with total dissolved solids primarily between 1,000 to 3,000 milligrams per liter, exceeding secondary drinking water standards for Texas. Sulfate values are also well in excess of the secondary drinking water standard of 300 milligrams per liter. Water from the Blaine Aquifer is used to irrigate highly salt-tolerant crops and for livestock. Water levels fluctuate seasonally in areas where the groundwater is used for irrigation. The planning groups did not recommend any water management strategies using the Blaine Aquifer.

Aquifer characteristics

- Area of outcrop: 3,443 square miles
- Area in subsurface: 2,203 square miles
- Availability: 315,183 acre-feet per year (2010) to 313,933 acre-feet per year (2060)
- Well yield: variable over short distances, ranges from a few to more than 1,500 gallons per minute
- Proportion of aquifer with groundwater conservation districts: 48 percent
- Number of counties containing the aquifer: 16

Groundwater supplies with implementation of water management strategies

