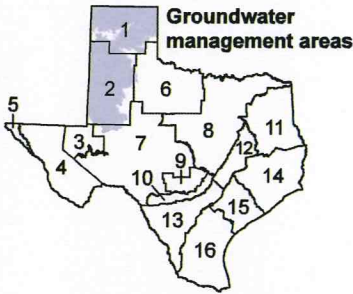
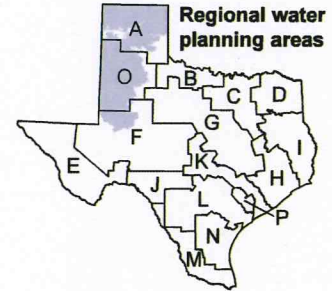
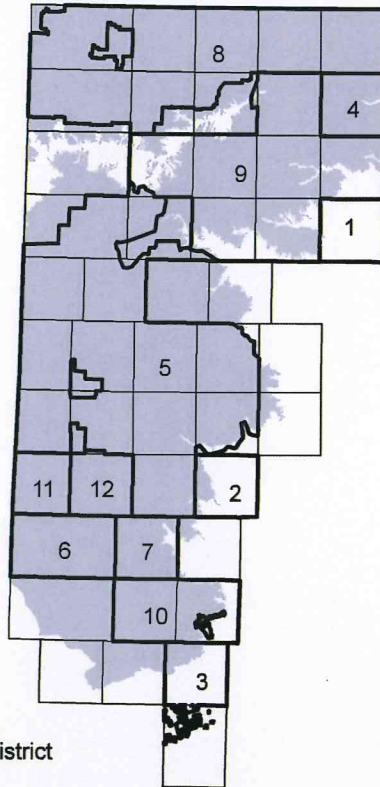


# Ogallala Aquifer



1. Collingsworth County UWCD
2. Garza County Underground and Fresh WCD
3. Glasscock GCD
4. Hemphill County UWCD
5. High Plains UWCD No. 1
6. Llano Estacado UWCD



7. Mesa UWCD
8. North Plains GCD
9. Panhandle GCD
10. Permian Basin UWCD
11. Sandy Land UWCD
12. South Plains UWCD

GCD = Groundwater conservation district  
 UWCD = Underground water conservation district  
 WCD = Water conservation district

The Ogallala Aquifer is the largest aquifer in the United States and is a major aquifer of Texas underlying much of the High Plains region. The aquifer consists of sand, gravel, clay, and silt and has a maximum thickness of 800 feet. Freshwater saturated thickness averages 95 feet. Water to the north of the Canadian River is generally fresh, with total dissolved solids typically less than 400 milligrams per liter. However, water quality diminishes to the south with large areas containing total dissolved solids in excess of 1,000 milligrams per liter. Naturally occurring high levels of arsenic, radionuclides, and fluoride in excess of the primary drinking water standards are also present. The Ogallala Aquifer provides significantly more water for users than any other aquifer in the state, primarily for irrigation. Although water level declines in excess of 300 feet have occurred in several areas over the last 50 to 60 years, the rate of decline has slowed, and water levels have risen in a few areas. The planning groups for Region A and Region O recommended numerous water management strategies using the Ogallala Aquifer, including drilling new wells, developing well fields, overdrafting, and reallocating supplies.

## Aquifer characteristics

- Area of aquifer: 36,497 square miles
- Availability: 5,968,260 acre-feet per year (2010) to 3,534,124 acre-feet per year (2060)
- Proportion of aquifer with groundwater conservation districts: 81 percent
- Number of counties containing the aquifer: 47

## Groundwater supplies with implementation of water management strategies

