

# PINEYWOODS GROUNDWATER CONSERVATION DISTRICT



## The Water Newsletter Serving Angelina and Nacogdoches Counties

2nd Quarter 2019

### Water Weekly

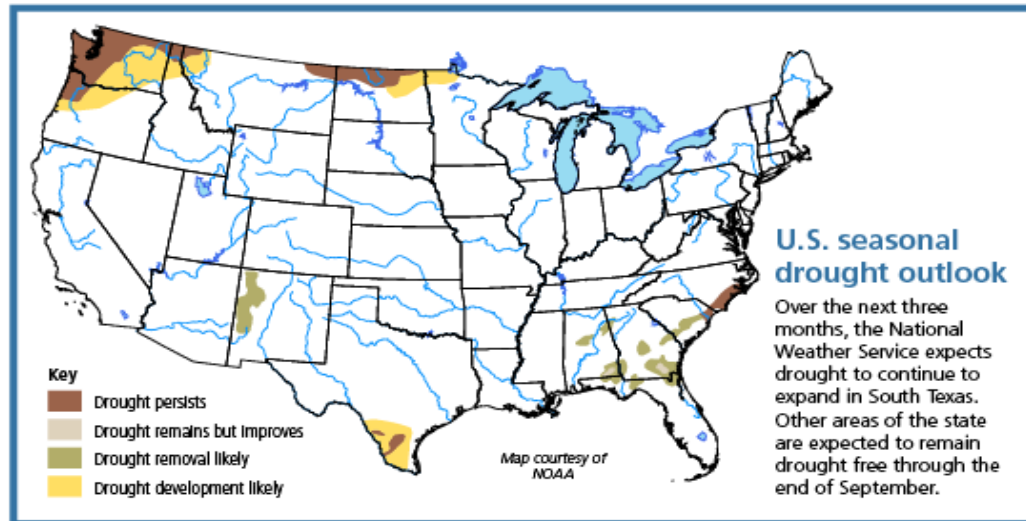
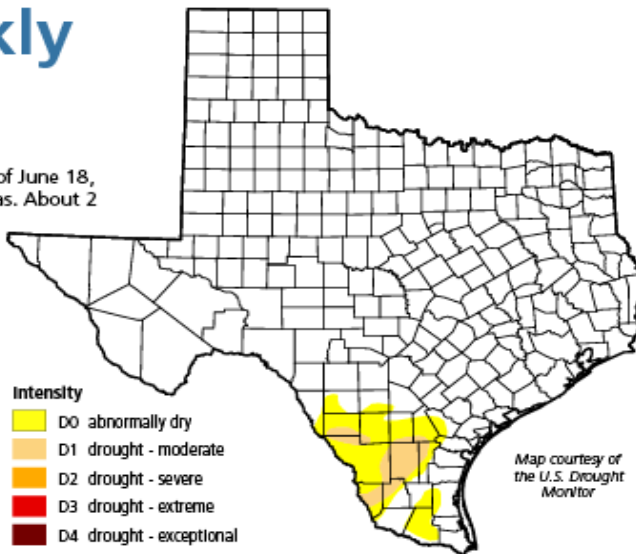
For the week of 06/24/19

#### Water conditions

The latest drought map, for conditions as of June 18, shows drought expanding in southern Texas. About 2 percent of the state is now impacted by drought. Another 4 percent is considered abnormally dry and susceptible to drought conditions in coming weeks.

#### Drought conditions

- ◆ 2% now
- ◆ 0.5% a week ago
- ◆ 10% three months ago
- ◆ 47% a year ago



At a Glance:

Wells in PGCD Database  
7/01/2019

\*11 exempt wells and 6 non-exempt wells in progress

\*Total Exempt wells in database—  
1108

\*Total Non-exempt wells in data-  
base— 290

\*Total Production fee based wells  
— 199

\*Total District wells recorded—  
2,723

### In This Issue

- At a Glance - p.1
- Water Weekly p.1
- Legislative update—p2
- Reservoir levels and rainfall—p2
- What is ASR—p2
- Map of Aquifers in Texas—p3
- Want to know more about aquifers? - p3
- Upcoming events—p4

Written by Dr. Mark Wentzel — Dr. Mark Wentzel is a hydrologist in the TWDB's Office of Water Science and Conservation.

Bryan McMath, Governmental Relations | bryan.mcmath@twdb.texas.gov | 512-463-7850  
Merry Klonower, Media Relations | merry.klonower@twdb.texas.gov | 512-463-8165

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## Legislative update: 86<sup>th</sup> Legislative Session

During the 86th legislative session over 10,000 bills were introduced. Here is a list of a few that passed that affect water:

HB 720 - relating to appropriations of water in aquifer and recovery projects (ASR)

HB 721 - directs the Texas Water Development Board to conduct studies related to ASR projects

HB 722 - outlines requirements for districts with regard to permitting brackish groundwater from brackish groundwater production zones.

HB 807 - creates an Interregional Planning Council consisting of one member from each of the 16 water planning groups.

HB 1066 - relating to the extensions of an expired permit for the transfer of groundwater from a groundwater district

HB 723 - relating to a requirement that the Texas Commission for Environmental Quality (TCEQ) obtain or develop updated water availability models for certain river basins

HB 3339 - relating to requirements for programs of water conservation and water

## Area Reservoir Levels:

As of 6/30/2019

Sam Rayburn lake: 100% full  
Capacity (acre-feet) 2,857,077

Lake Nacogdoches: 89.9% full  
Capacity (acre-feet) 39,522

## Total Rainfall in June:

Angelina Co: 13.2"

Nacogdoches Co: 7.4"

### 1. What is aquifer storage and recovery (ASR)?

Aquifer storage and recovery (commonly referred to as ASR) is the practice of storing water in a suitable aquifer through a well when water is available and recovering the water from the same aquifer when it is needed. Typically, the same well is used for both injection and recovery.

### 2. Are there other methods to transfer water into an aquifer?

Yes, two other common methods are spreading basins and vadose zone wells. If the soil between the land surface and the aquifer can transmit water, spreading basins can be used. In spreading basins, water is retained by engineered structures and percolates through the soil to the aquifer. If the soil at the surface is impermeable and the aquifer is shallow, vadose zone wells might be considered. Vadose zone wells typically are large diameter wells that penetrate through an impermeable soil layer to areas where water can infiltrate the soil through the wells and drain into the aquifer.

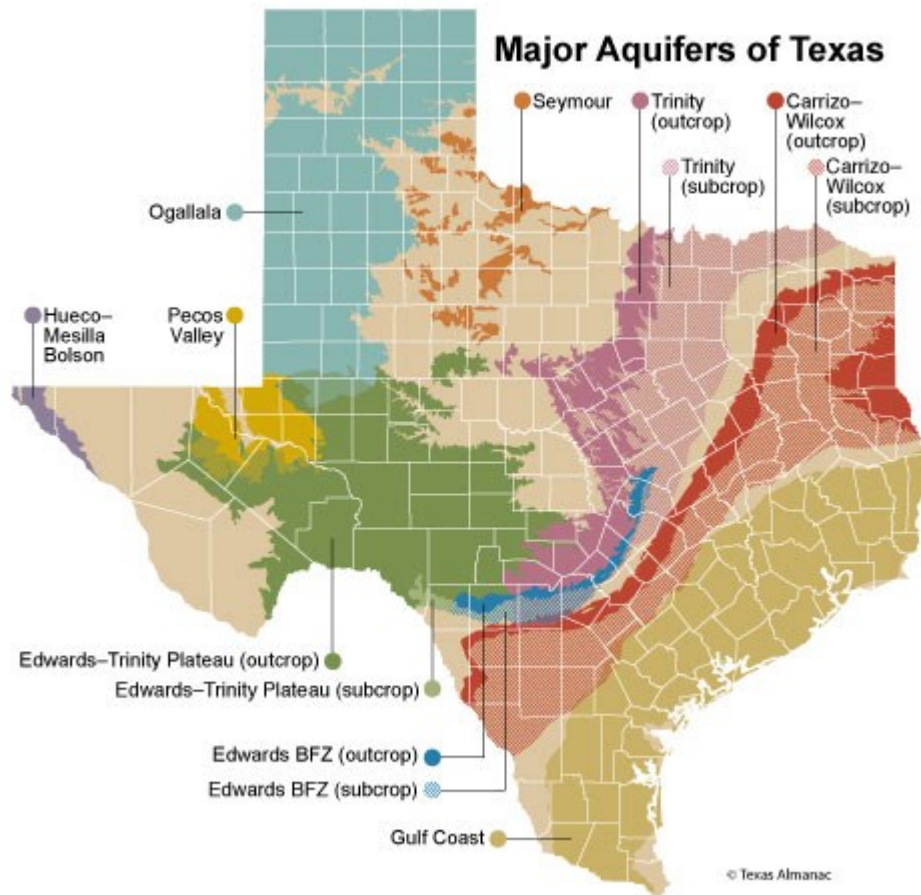
### 3. How many aquifer storage and recovery systems are there in Texas?

Currently, there are three in Texas. The aquifer storage and recovery system at the City of Kerrville began operating in 1998, and the San Antonio Water System's Twin Oaks facility began operating in 2004. Both systems continue to perform successfully and are viewed by their operators as a beneficial component of their water management plans. El Paso Water Utilities uses what is considered a hybrid aquifer storage and recovery facility established in 1985. In this system, water is added to the aquifer using wells and spreading basins and the stored water is recovered from wells that are not the same as the ones used for injection.

### 4. How many aquifer storage and recovery systems are there in the United States?

There are approximately 175 aquifer storage and recovery well fields in the United States.

If you have any questions about or need information on the TWDB's aquifer storage and recovery program,



## Want to know more about aquifers?

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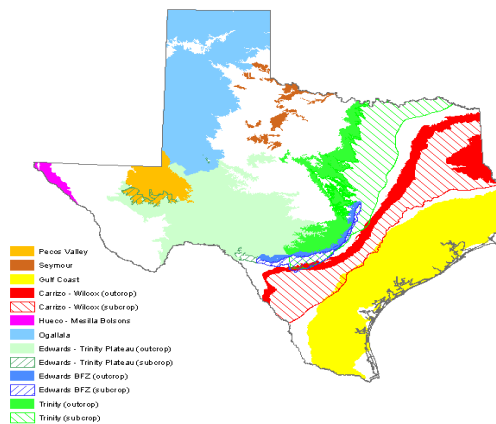
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Stephen Raley—Director

### Staff

John McFarland—General Manager

Cheryl Benke—Administrative



The Texas Water Development Board has several useful videos and reports about aquifers;

<http://www.twdb.texas.gov/groundwater/video/index.asp>

[http://www.twdb.texas.gov/publications/reports/numbered\\_reports/doc/R380\\_AquifersofTexas.pdf?d=6533](http://www.twdb.texas.gov/publications/reports/numbered_reports/doc/R380_AquifersofTexas.pdf?d=6533)

# Upcoming Events

Regularly scheduled meeting of the Pineywoods Groundwater Conservation District, 1:30 pm @ Kurth Lake Lodge, July 10, 2019

Regularly scheduled meeting of Groundwater Management Area 11, 10:30 am @ Nacogdoches City Hall, 202 East Pilar St, Nacogdoches, Tx, room 119, July 16, 2019

Regularly scheduled meeting of Carrizo Wilcox Stakeholders, 1:00 pm @ Nacogdoches City Hall, 202 East Pilar St, Nacogdoches, Tx, room 119, July 16, 2019

Regularly scheduled meeting of Regional Water Planning Areas, Region I, 10:00 am @ Nacogdoches Recreational Center, 1112 North Street, Nacogdoches, Tx, July 17, 2019

## District Holidays

The District Office will be closed for the following holidays:

Serving Angelina and Nacogdoches Counties

## Contact Us

Pineywoods Groundwater Conservation District

**P.O. Box 635187**  
Nacogdoches, Tx 75963-5187

Phone: (936) 568-9292

Fax: (936) 568-9296

Email: [staff@pgcd.org](mailto:staff@pgcd.org)

202 E. Pilar, Room 132

**Pineywoods Groundwater Conservation District**

P.O. Box 635187

Nacogdoches, Texas 75963-5187

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