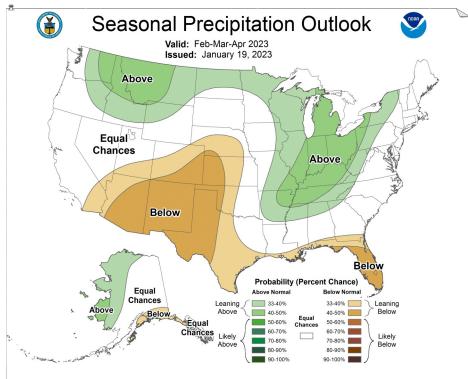
Pineywoods Groundwater Conservation District P.O. Box 635187
Nacogdoches, Texas 75963-5187

PINEYWOODS GROUNDWATER CONSERVATION DISTRICT



The Water Newsletter Serving Angelina and Nacogdoches Counties

4th Quarter 2022



The three month precipitation outlook, issued on February 17, 2022 shows that rainfall will lean below normal (brown) over the western two-thirds of the state, with lower chances of being likely below normal (light brown) in a swath of the state extending from north Texas through east Texas. There are equal chances (white) of rainfall being above- or below-normal in northeast Texas.

Source: Water Data for Texas

https://www.waterdatafortexas.org/drought/drought-outlook

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In This Issue

Seasonal Precipitation Outlook - p.1

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- At a Glance p.2
- Wells in the Database - p.2
- Upcoming Events p.
 3
- Water Weekly p. 4
- Rainfall comparison p.5
- Water Wise Conservation Steps—p. 5
- Acre Feet of Groundwater - p.6
- The Queen City Aquifer - p. 7

At a Glance:

Wells in PGCD Database 7/01/2022

34 well applications in progress

Total Exempt wells – 1361 Total Non-exempt wells –

296

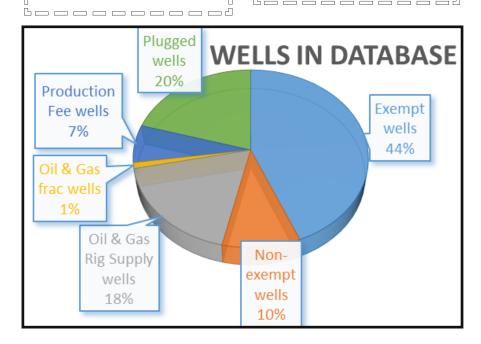
Total Production fee wells – 206

O&G wells — 551

Frac wells — 32

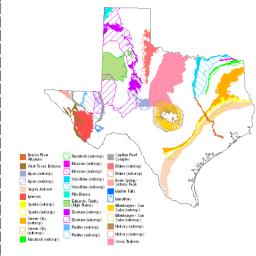
Plugged wells — 615

Total District wells recorded—3.061



"It is better to suffer wrong than to do it, and happier to be sometimes cheated than not to trust. "

Samuel Johnson



The Queen City Aquifer

Aquifer Facts

- Aquifer type: confined and unconfined
- Area of outcrop:8,781 square miles
- Area of subsurface: 7,015 square miles
- Proportion of aquifer with groundwater conservation districts: 63 percent

Number of counties containing the aguifer: 42

Summary

The Queen City Aquifer is a minor but widespread aquifer that stretches across the Texas upper coastal plain. Water is stored in the sand, loosely cemented sandstone, and interbedded clay layers of the Queen City Formation that reaches 2,000 feet in thickness in South Texas. Average freshwater saturation in the Queen City Aquifer is about 140 feet.

Water is generally fresh, with an average concentration of total dissolved solids of about 300 milligrams per liter in the recharge zone and about 750 milligrams per liter deeper in the aquifer. Although salinity decreases from south to north, areas of excessive iron concentration and high acidity occur in the northeast.

The aquifer is used primarily for livestock and domestic purposes, with significant municipal and industrial use in northeast Texas.

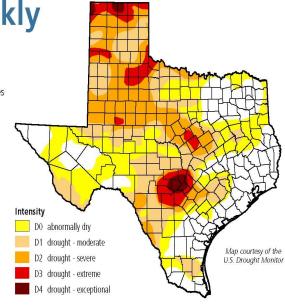
Water Weekly For the week of 01/02/23

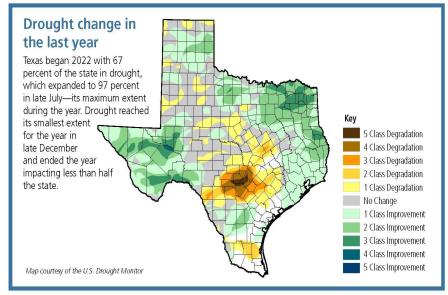
Water conditions

Thanks to seasonally cooler temperatures and dormant vegetation, drought conditions tend to change slower this time of year. This week's drought monitor map, for conditions as of December 27, is a perfect example. The latest map shows no changes from the previous week.

Drought conditions

- ♦ 49% now
- ♦ 49% a week ago
- ♦ 61% three months ago
- ♦ 67% a year ago



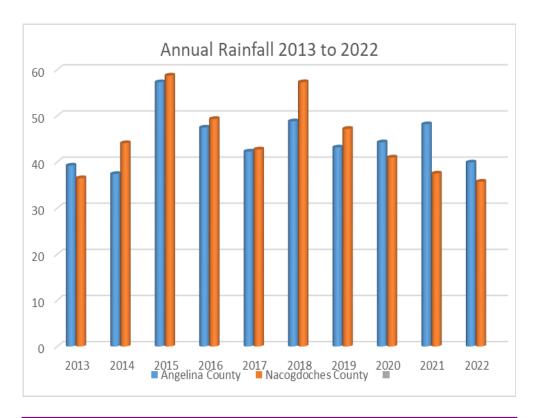


Written by Dr. Mark Wentzel — Dr. Mark Wentzel is a hydrologist in the TWDB's Office of Water Science and Conservation.

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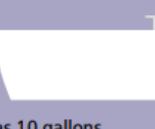




Water Conservation Tip:

Showers

- A water-efficient showerhead is one of the single most effective water-saving steps you can take inside your home.
- Take shorter showers. A full bathtub can use up to 70 gallons of water versus a 5-minute shower that uses as little as 10 gallons.





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Upcoming Events

Regularly scheduled PGCD board meeting— February 8, 2023 @ 1:30, Nacogdoches City Hall

Regularly scheduled meeting of Regional Water Planning Area, Region I, --- February 23, 2023

Regularly scheduled meeting of Regional Water Planning Area, Region D, --- March 15, 2023

Regularly scheduled meeting of Groundwater Management Area 11 - - TBD

District Holidays

The District Office will be closed for the following holidays:

Monday, January 2—New Year's Day Monday January 16—MLK Day

Serving Angelina and Nacogdoches Counties