

Map: July 28, 2022
[US Drought Monitor](#)

GCGCD NEWS



SUMMER 2022 Newsletter

HOT SUMMER in Texas

This summer could be one of the hottest summers in Texas history according to Texas state climatologists. You may recall the extreme conditions from 2011, the current hottest summer on record. This year, a wave of early summer drought and high temperatures hit Texas in May, tying for the second hottest May on record.

Add to that - little to no rainfall in June and July - and you have drought conditions spreading across the entire state.

NOAA has predicted another above average hurricane and tropical storm season which could bring some needed relief to parts the state. But until the rain falls, please do your part to conserve water.

Remember Every Drop Counts!



[WWW.GCGCD.ORG](http://www.gcgcd.org)



Visit our website for more information!



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Happy Summer Everyone!

I know **Rain** is on our **Brain** – but it’s looking more and more like another hot, dry forecast - so for this newsletter, we are highlighting the theme of Drought.

As always, we encourage you to conserve water whenever possible.

Please be mindful of your water usage. Take care to follow all water use restrictions. Remember, Every Drop Counts!

Have a happy and safe Summer!

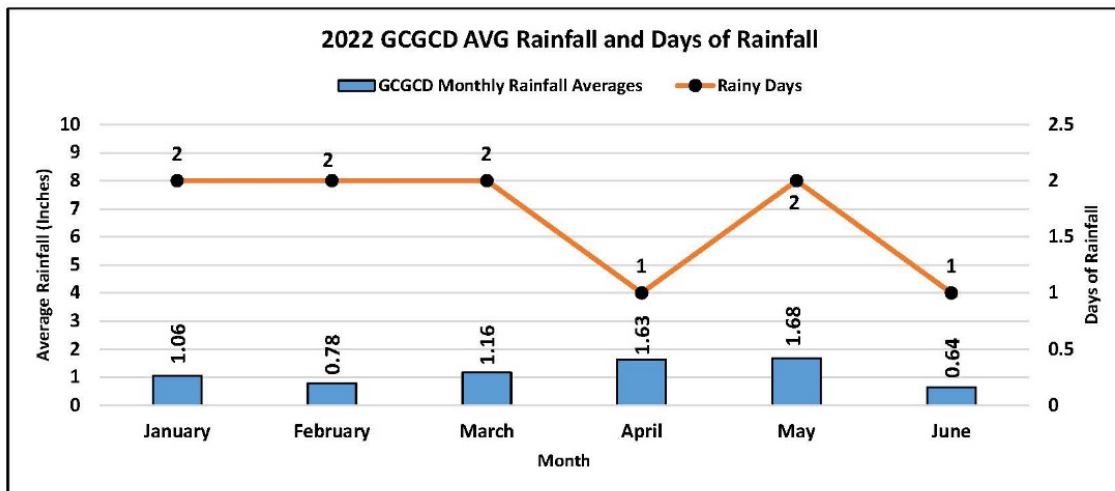


*Kelley Cochran
General Manager*



GCGCD adopted [2022 Drought Management Plan](#)

Contact your water utility to learn more about Drought Stage Conditions and Water Use Restrictions:



Do your part to help prevent wildfires

Remember what Smokey the Bear™ taught us!

With the lack of rain and temperatures soaring into triple digits this Summer - it's important to be safe and mindful of potential for wildfires.



When a Burn Ban is in effect, all outdoor burning, with the exception of agricultural purposes, is prohibited.

The [Guadalupe County Fire Marshal](#) website page has up to date information on status of Burn Bans.

*Remember, even when a Burn Ban has not been issued, there are still laws in place for safety requiring wind speed not exceed 23 mph.

To read more about the laws in Texas for outdoor burning, TCEQ publication explaining [Outdoor Burning Rules](#).

Check wind speed near you - Link to [TexMesonet](#) stations in GCGCD area.

Additional ways to help prevent wildfires:

Never toss a lit flame (cigarette/match) out a vehicle window!

Vehicle Maintenance & Safety -

- When towing, take care not to drag metal chains that may cause a spark.
- Maintain proper tire pressure to avoid driving on a metal rim.
- Do not let your brake pads wear too thin - metal on metal generates sparks.
- Do not drive through, idle engine, or park over tall dry grass - the heat from exhaust pipes can start a grass fire.

Lawn Care -

- Take precautions to avoid striking rocks with metal lawn blades - especially when grass is excessively dry. Take care on hot, dry days and avoid mowing when windy.
- Avoid overfilling or spilling fuel when refueling equipment - gasoline on dry grass plus a spark will ignite.
- For safety - keep a shovel and a fire extinguisher handy when working in yard or outdoors with mechanical equipment and keep a cell phone nearby and call 911 in case of fire.

[Prevention How-Tos | Smokey Bear](#)



The Texas Water Resources Institute and the Texas A&M AgriLife Extension developed the [Texas Well Owner Network](#) in an effort to disseminate science-based educational pamphlets to the public with a focus on protecting ground water quality in Texas.

Brochures and Fact Sheets can be downloaded by visiting their websites.

Relating to Drought: [Protecting your Water Well During Drought](#)

Understanding Warning Signs to help prevent Wildfires

With the worsening drought conditions in the state of Texas, the chances for wildfires to start and spread has increased immensely. This year alone, multiple wildfires have popped up throughout the state including here locally in Guadalupe County and in the nearby counties of Bexar and Medina. With no relief from the harsh dry conditions in the near future, it is important to keep up with up-to-date information on conditions that are conducive for wildfires.

The [National Weather Service](#) has criteria in place to determine when a fire weather watch and red flag warnings are needed.

The criteria include:

1. Relative humidity of 15% or less
2. Winds sustained at 20 mph or gusts of at least 35 mph
3. The National Fire Danger Rating System in the area is designated a rating of “high” or higher.

A **Fire Weather Watch** is issued up to 72 hours before fire conditions are set expected to occur. It indicates the potential for dangerous fire weather conditions.

A **Red Flag Warning** is issued for an impending or occurring wildfire event. It usually means that forecasters have a high degree of confidence that a red flag event will occur in 12 to 24 hours or less.

Drought Maps: While drought is not required to have increased wildfire activity, it can enhance those conditions. It is important to keep track of drought conditions as they foreshadow dangerous fire conditions. The most reliable drought map comes from the [United States Drought Monitor](#) that displays drought maps for the state of Texas, and it is updated every Thursday.

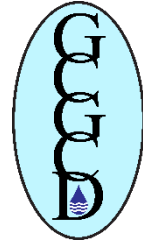
Burn Bans: A county judge and county commissioners’ court may issue a ban on outdoor burning to help prevent dangerous wildfires according to guidelines as defined by the Texas Forest Service. The Texas Forest Service offers a [Texas state map](#) with all counties with current burn bans in place highlighted to inform the public if there is a burn ban in place where they live.

Source: National Weather Service



June 2022 Water Level Report

William B. Klemt
William B. Klemt, P.G.



Read Full Report

Summary:

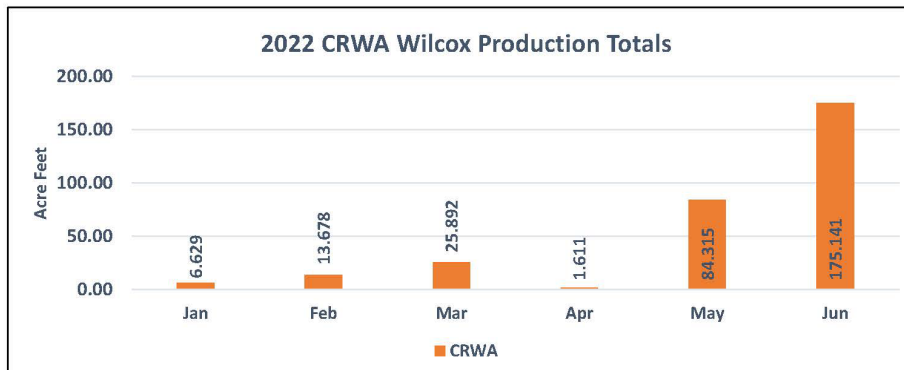
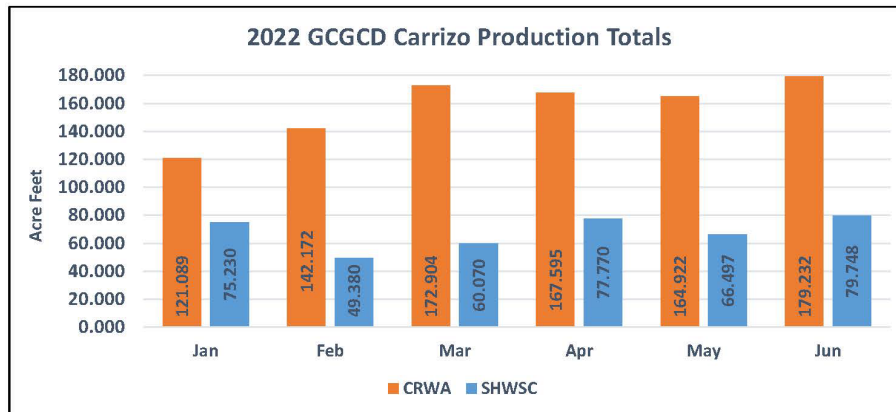
Short term: (June 2021 – June 2022) Carrizo water levels declined ~ 3.1 feet;

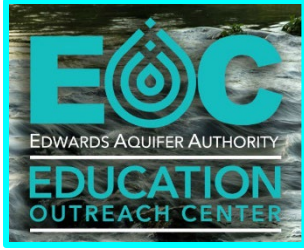
Long term: (2013 - 2022) Carrizo water levels in the outcrop indicate an average decline of -0.5 foot/year;

At the present-day level of pumpage, small to moderate water-level declines are continuing in the Carrizo downdip from the outcrop. However, additional proposed pumpage is expected to increase the rate of Carrizo water level decline within the District to a more moderate level. For the most part, Wilcox water levels remain relatively stable.



Water chemistry table now included in report – 10 Carrizo wells & 7 Wilcox wells





The Edwards Aquifer Authority (EAA) has opened an educational outreach center to enhance its mission of managing, enhancing and protecting the Edwards Aquifer. Featured in the [TAGD monthly newsletter](#), the EAAEOC offers interactive exhibits – open to the public – including a Cave theatre to educate about the karst topography and sensitive recharge zones. [Schedule your visit!](#)

TAGD Summit is offering a Pre-Conference field trip Add-On for \$50 to the Edwards Aquifer Educational Outreach Center (EOC) from 1:00 pm – 5:00 pm on Monday, August 29th

To register visit the TAGD website:

[Texas Groundwater Summit | The Texas Alliance of Groundwater Districts](#)

[Education Outreach Center | EAA's first permanent facility dedicated exclusively to offering STEAM immersive exhibits. \(eaaeoc.org\)](#)



Texas Alliance of Groundwater Districts (TAGD)

11th Annual Texas Groundwater Summit



[Texas Groundwater Summit | The Texas Alliance of Groundwater Districts](#)

August 30th – Sept. 1st [Hyatt Regency Hill Country Resort](#)

WHO'S Going to be there?

- Groundwater Conservation Districts staff & board members
- Well drillers and well technology companies
- Water providers and planners
- Groundwater stakeholders, hydrogeologists, attorneys, engineers, groundwater technology experts, consultants, students, and anyone interested in the future of groundwater!
- Hopefully YOU too*

*A livestream option is also available for those participants that are unable to travel or uncomfortable with an in-person conference.



[TGWA Annual Convention](#)

JANUARY 24 – 27, 2023

San Marcos Embassy Suites Hotel & Convention Center



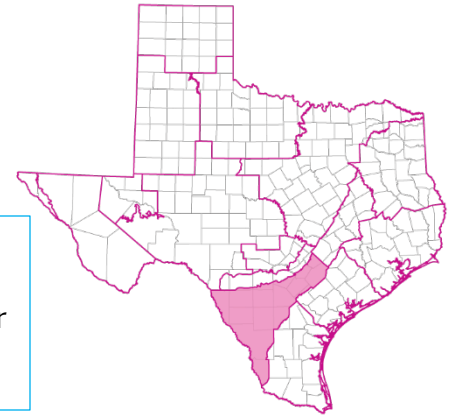
GMA 13 News

Update on the Groundwater Availability Model (GAM) for the Southern Portion of the Queen City, Sparta, and Carrizo-Wilcox aquifers by the TWDB

Stakeholder Advisory Forum (SAF) met July 22nd to discuss the:

- Objectives of Study
- Overview of the Study Area
- Numerical Model Development
- Model Calibration and Results
- Predictive Simulation Results
- Next Steps and Future Improvements

**Texas Water
Development Board**



MAG Values Available Soon!

Modeled Available Groundwater draft currently being reviewed.

Desired Future Conditions

Adopted by resolution by the GCGCD Board of Directors in an open meeting held June 9, 2022

[Groundwater Management Area 13 | Texas Water Development Board](#)

**WATER
for TEXAS
2023 conference**
CONNECTING H₂O OPPORTUNITIES

[REGISTRATION INFO](#)

[SPEAKERS](#)

[CONFERENCE AGENDA](#)

[SESSIONS](#)

Registration now OPEN for the

January 23-25, 2023 Conference Austin, TX
hosted by the Texas Water Development Board

#WaterforTX2023

Topics will include:

[VENUE](#)

- ❖ Water science & technology
- ❖ Drought & Flood
- ❖ Innovative solutions to water challenges
- ❖ Texas water policy
- ❖ Communication strategies

2022 State Water Plan is based on the 16 regional water plans encompassing the needs of all water user groups in the state:

- Municipal, Irrigation, Manufacturing, Livestock, Mining, and Steam-Electric Power

To read the plan - visit the TWDB site @ <https://www.twdb.texas.gov/waterplanning/swp/>

UPCOMING EVENTS –

- August 4th Region L – virtual [Region L Texas | South Central Texas Regional Water Planning Group](#)
August 11th GCGCD Board Meeting [AGENDAS & NOTICES - Guadalupe County Groundwater \(gcgcd.org\)](#)
Aug. 30 – Sept. 1 TAGD [Texas Groundwater Summit | The Texas Alliance of Groundwater Districts](#)
Sept. 5th Labor Day – GCGCD office closed
Sept. 8th GCGCD Board Meeting [AGENDAS & NOTICES - Guadalupe County Groundwater \(gcgcd.org\)](#)

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Did You Know?

Did you know that it's possible to 'Pull' water from the Air to be used later?

Scientists from the University of Texas in Austin have developed a way to do just that! Researchers have developed a low-cost material made from kunjac gum, a common ingredient used in foods and beverages as a thickening agent. This material is a water-soluble dietary fiber that can be combined with other materials to form a unique polymer film capable of extracting water from the air. As the material absorbs water, it turns into a gel which can then revert back to a polymer when the water has been released. The water is released as a vapor which can be collected, cooled, and stored as a liquid. The process can be repeated multiple times per film and has applications for both human consumption (after treating) and agriculture.

Originally developed for soldiers working in desert conditions, a one-pound piece of the material only costs about \$2 and has the capability of producing between one and two gallons of water per cycle – which equates to more than 40 gallons of water a day!

AMAZING!!

Source: KXAN.com



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