

2022 Carrizo Saturated Thickness Model

# GCGCD NEWS



### SPRING 2022 Newsletter

### 2022 Carrizo Saturated Sand Thickness Model

GCGCD is excited to announce the release of the NEW 2022 Carrizo Saturated Sand Thickness Model and Water Rights Allocation using the newly adopted Annual Production Cap (APC).

Effective June 1, 2022 – the District will release the new water rights calculations for property owners situated over the Carrizo Aquifer within the District boundaries using the APC of 16,000 acre-feet per year. Remember, GCGCD Carrizo Water Rights are calculated by using the relative percentage of the total amount of saturated Carrizo sands within the District which is attributed to any individual property multiplied by the APC. [Rule 5.4(d)] Continued on page 3.



WWW.GCGCD.ORG



Visit our website for more information!



# Happy Spring Everyone!

I wanted to thank you for your patience waiting on our Spring Newsletter. I postponed publishing so I could share with you the exciting news of our NEW 2022 Carrizo Saturated Sand Thickness Model release - Adopted just this month by the Board. Be sure to visit our website for the release of the Carrizo Water Rights using the new APC released on June 1<sup>st</sup> - <u>www.gcgcd.org</u>

Enjoy the Spring weather while it lasts - it will be Summer soon!





Kelley Cochran **General Manager** 





January 2022 Water Level Report By William B. Klemt, P.G.



READ ME!

### SUMMARY

Short term: (January 2021 - January 2022) Carrizo Aquifer water levels declined ~ 1.8 feet

Long term: (2013-2022) Carrizo Aquifer water levels in the outcrop indicate an average decline of less than  $\frac{1}{2}$  foot/year

At the present-day level of pumpage, small to moderate water level declines are continuing in the Carrizo Aquifer down-dip from the outcrop.

However, additional proposed pumpage is expected to increase the rate of Carrizo Aguifer water level decline within the District to a more moderate level.

For the most part, Wilcox Aquifer water levels remain relatively stable.

Beckound

### Continued from cover: 2022 Carrizo Saturated Sand Thickness Model

During our annual review of the model, and looking at the 'best available science', the District set out to evaluate if newly available data from the TWDB and current reliable hydrological data from the District's water level measurements could be inputted to the model to reflect a more accurate depiction of the aquifer adjusting to changing conditions.

Following the completion of GCGCD's Carrizo outcrop monitoring wells and the release of the TWDB Brackish Resources Aquifer Characterization System (BRACS) data and subsequent published TWDB Report 385, we tasked our GIS specialist and developer of the 2003 Carrizo Saturated Thickness Model - Shawn Vickers, Kiva Consulting to evaluate a possible model update.

Shawn worked with the TWDB BRACS manager Alysa Suydam, P.G. and the District's hydrogeologist William B. Klemt, P.G. to review geophysical logs for possible inclusion. The analysis revealed that a new model would better reflect the aquifer characteristics. The new 2022 Carrizo Saturated Sand Thickness Model was adopted at our May 12<sup>th</sup> GCGCD board meeting. A technical memo will be available in June for those interesting in learning more about the model.

New Carrizo Water Rights will be posted on our website June 1<sup>st</sup> www.gcgcd.org.

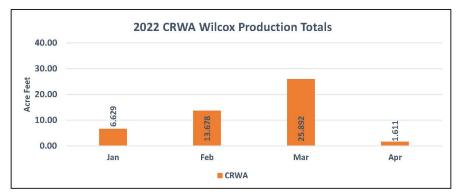
### **DFC Update**

April 15, 2022 – The Desired Future Conditions Explanatory Report and other materials for Groundwater Management Area 13 were determined Administratively Complete in accordance with statute and approved by the Executive Administrator.

Next step – Each GCD within GMA 13 will formally adopt the DFC.

Modeled Available Groundwater (MAG) values will be issued no later than October 15, 2022.





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### Additional information

State Managed Well Plugging Video

Wells remaining to be Plugged with State Managed Funds

State Managed Plugging Activities Monthly Reports





### **RRC Eligibility for \$343m for Orphan Oil & Gas Wells**

Through the RRC, Texas is eligible to apply for \$343 million in federal infrastructure funds to assist with the clean-up of orphan oil and gas wells. *What is an orphaned oil & gas well?* A well is considered 'orphaned' when there is no longer a legal owner to take responsibility.

This program's funding will enable the RRC to continue it's plugging programs, remediating high-priority wells, and collecting additional data regarding the number of orphaned wells. These wells can pose a contamination risk to groundwater, among other concerns. To learn more about the RRC's orphaned wells in Texas – visit the RRC's website <u>Orphan Well Query (texas.gov)</u>

### Annual Geronimo and Alligator Creeks Clean Up

Held April 30<sup>th</sup> & Another great success! Thank you to all that participated.

http://gcgcd.org/outreach.html





Texas A&M AgriLife Extension organizes this event and once again, GCGCD is proud to sponsor this great cause!

For more information visit: <u>Home - Geronimo and Alligator Creeks</u> Watershed Partnership (geronimocreek.org)

### Water Conservation Tips

Only order water in a restaurant if you're *actually* going to drink it



 Do you grab a fresh towel for each shower? Make it last a week – do less laundry – save water!

- Don't overwater your plants, garden & lawn Use a soil moisture meter for healthier plants and conservation!
- When cooking, peel and clean vegetables in a large bowl of water instead of under running water.







Omar changing out transducer at Monitoring Well MW-CZ-7





Texas Runs on Water is a 2022 Conservation Wrangler!

## TEXAN 🖗 NATURE

Texan by Nature (TxN) Conservation Wrangler is an accelerator program that catalyzes the very best Texan-led conservation projects occurring in the state. Selected projects are science-based and demonstrate a positive Return on Conservation for people, prosperity, and natural resources.

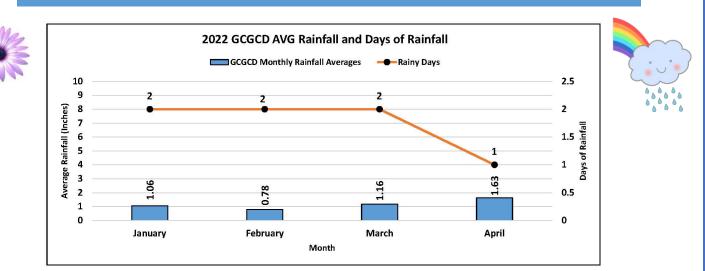
Texas Water Foundation is working to lead Texas into a sustainable water future by investing in the next generation of water leaders, equipping decision makers, and inviting every Texan to recognize that Texas Runs on Water. SSLGC Guadalupe Project well field progressing.

FXAS





Thank you - Don Barrett of Walker Partners - for the field day tour



## EARTH DAY 2022

Seguin's Earth Day Celebration was held Downtown Central Park, Austin Street in conjunction with Main Street's Spring Trade Days on April 30<sup>th</sup>. Hundreds of folks turned out to join in the celebration and learn more about how to help protect the environment and conserve natural resources.

We want to thank everyone for coming by our booth and visiting with us about water conservation! We're so happy you joined our newsletter list!



Thank you, Mayor Donna Dodgen, for stopping by our booth!



GCGCD Board President Hilmar Starcke, III

Even ELVIS stopped by 😊

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## Atlantic Hurricane Season 2022

Every hurricane season, it is important to refresh on the difference between storm warnings. A *watch* and a *warning* have different levels of urgency. Both can be applied to hurricanes, tropical storms, tornadoes, and/or floods. Knowing the difference between these terms is essential to identifying the dangers of an approaching weather event. As hurricane season is upon us - it's an excellent idea to discuss an emergency plan with your family *before* a watch or warning has been issued.

A **hurricane watch** is issued when a hurricane poses a possible threat to your area, generally within 48 hours. A watch does not necessarily mean you will experience hurricane conditions, but that these conditions are possible. In the event of a hurricane watch, people should prepare their homes and review their evacuation plans in case a warning is issued.

A **hurricane warning** is issued when hurricane force winds are expected within 24 hours. A warning is essentially a 'wake-up' call that hurricane conditions are expected in your area and any plans to protect your family, pets, and property should have already been done. If evacuation orders are in place, immediately leave the threatened area.

Source: National Weather Service

### Why Are Tropical Storms and Hurricanes Given Names?

Prior to naming tropical cyclones, storms were typically named according to the area it impacted and the year that it formed. For example, the Galveston Storm of 1900. During World War II, meteorologists in the U.S. Army and Navy recognized the need for a better system to denote hurricanes. Adopted in 1953 as tribute to their wives and girlfriends, hurricanes were given women's names. However, this naming system was criticized and in 1979 the National Weather Service and the World Meteorological Association switched over to an alternating inventory of both men's and women's names. These lists of names are rotated every six years, alternating between male to female or female to male. The only change to these lists occurs if a tropical storm or hurricane is so deadly or costly that the name is retired from future use. Some examples of retired names include Andrew, Harvey, Maria, and Katrina.

National Hurricane Center

Bonnie Colin Danielle Earl Fiona Gaston Hermine lan Julia Karl Lisa Martin Nicole Owen Paula Richard Shary Tobias

Hurricane

Name List

2022

Alex



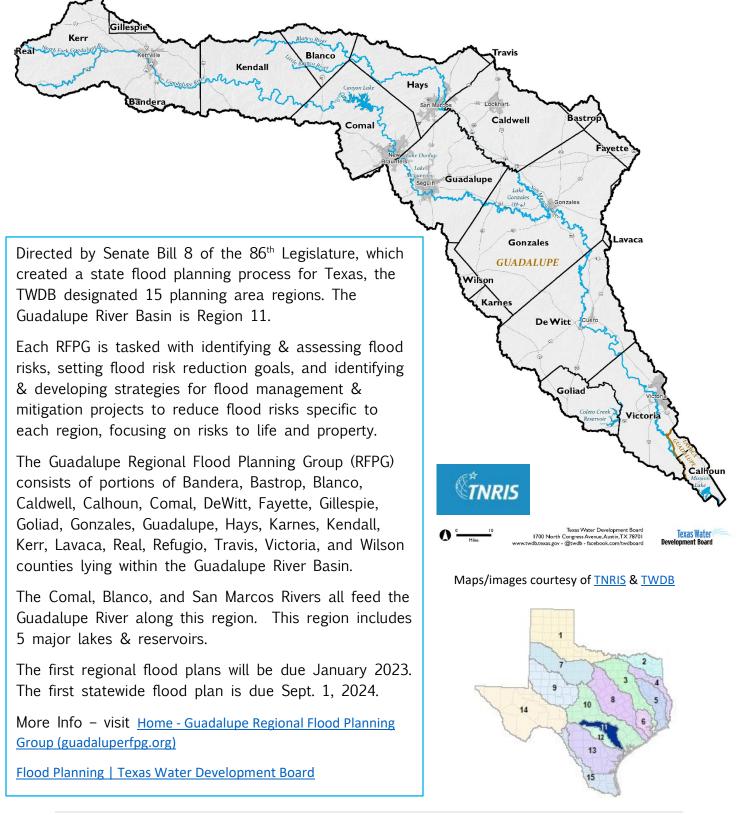
Virginie

Walter

Source: National Weather Service







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### **UPCOMING EVENTS**

American Ground Water Trust – June 1<sup>st</sup> & 2<sup>nd</sup> – Austin, TX <u>https://agwt.org/events</u>

Upcoming GCGCD board meetings: June 9<sup>th</sup>, & July 14<sup>th</sup> @ 4:30 PM TAGD Summit – August 30<sup>th</sup> – Sept. 1<sup>st</sup> <u>Texas Groundwater Summit | The Texas Alliance of Groundwater Districts</u>

#### GCGCD Board of Directors & Staff

Kelley A. Cochran – General Manager kelley@gcgcd.org

Omar Maldonado – Field Tech/Admin. Assistant omar@gcgcd.org

District 1 – Matt Miranda - Director mattjmiranda@gcgcd.org

District 2 - Hilmar Blumberg - Secretary hilmar\_blumberg@gcgcd.org

District 3 - A. Robert Raetzsch – Director raetzsch@gcgcd.org

District 4 - William Jones – Treasurer bill\_jones@gcgcd.org

District 5 – Mark Gustafson - Director mark\_gustafson@gcgcd.org

District 6 - Hilmar Starcke III - President hil starcke@gcgcd.org

District 7 - Jeff Schuehle - Vice President jeff\_schuehle@gcgcd.org

> GCGCD PO Box 1221 Seguin, TX 78156 830-379-5969

200 N. Austin St. Suite # 301 Seguin, TX 78155 www.gcgcd.org gcgcd@gcgcd.org

GCGCD 830-379-5969

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Did you know - what led to the first

Earth Day celebration?

An unfortunate oil spill off the coast of Santa Barbara, California on January 28, 1969 led to ~30 million gallons of oil being released into the Pacific Ocean. This 'environmental disaster' sparked a push towards stronger environmental regulations.

On January 28, 1970, Environmental Rights Day was created in Santa Barbara, CA which led to the creation of Earth Day now celebrated globally on April 22 since 1970.

Source: earthday.org

