

Hays Trinity Groundwater Conservation District

Presents to:

West Cave Estates Homeowner's Association

August 5, 2014

Rick Broun: HTGCD General Manager

512-858-9253

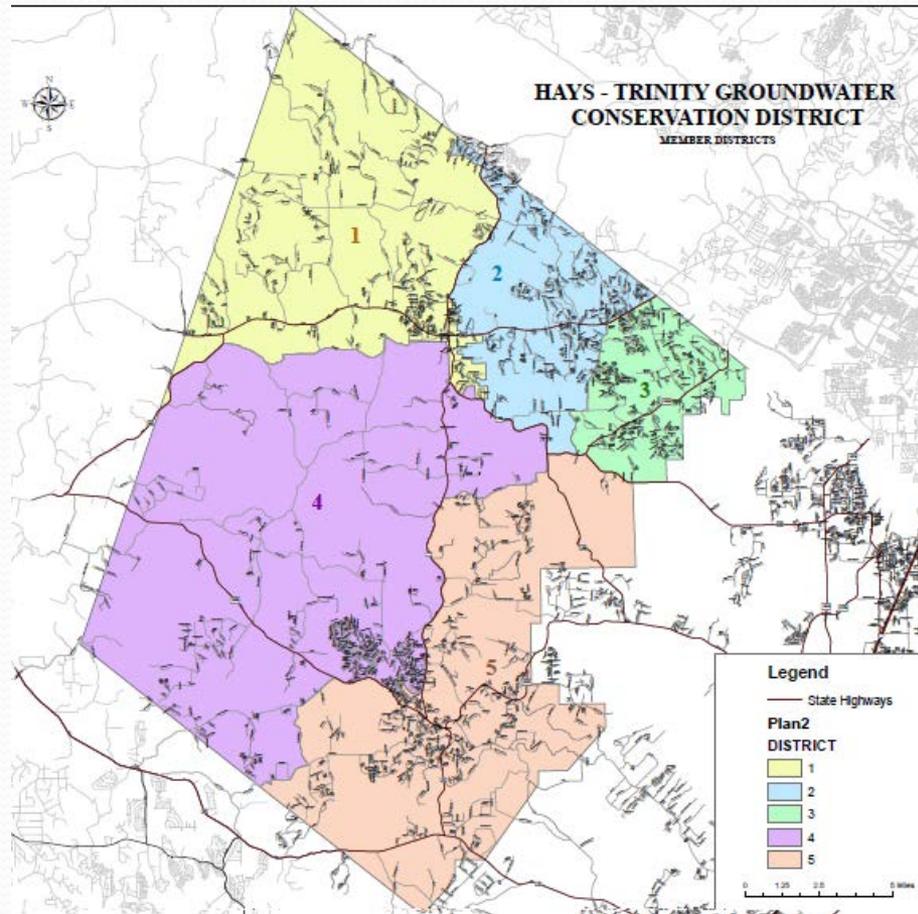
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HTGCD Boundary

- Visit the District's website under "About HTGCD" to see and explore our boundary map. You'll notice that the map is divided into five colored single member districts each with its own elected HTGCD Board member.
- Our boundary encompasses all of western Hays County including areas such as Henly, Dripping Springs and Cedar Valley. Other areas such as West Cave Estates, Driftwood and the Wimberley Valley are also part of the District.

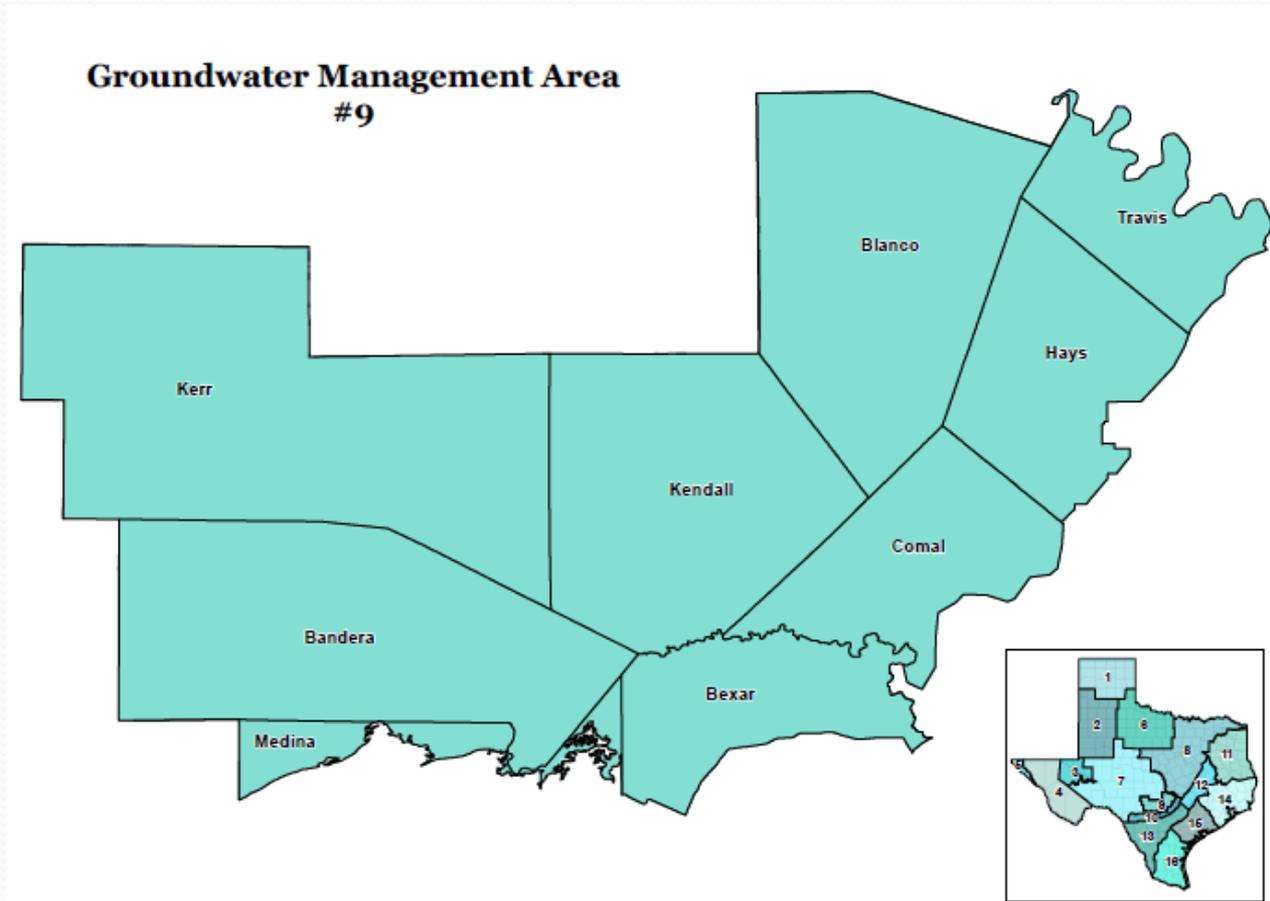
Western Hays County Boundary Map



Other Boundaries

- There are four groundwater Districts within Hays County including: Hays Trinity, Barton Edwards, Edwards Aquifer Authority and Plum Creek. Each with its own rules, regulations and Board members.
- The HTGCD is part of a Groundwater Management Area (GMA9). It consists of 9 adjoining groundwater districts that are mandated by the State to determine the desired future conditions (DFC) of the entire GMA9 over a fifty year period. The GMA9 is best suited together because of its common denominator, the Trinity Aquifer. Every five years the GMA9 reevaluates the DFC based on water well levels, reported production amounts from non-exempt permit holders and the number of new wells constructed. Currently there are no groundwater districts within western Comal or western Travis Counties.

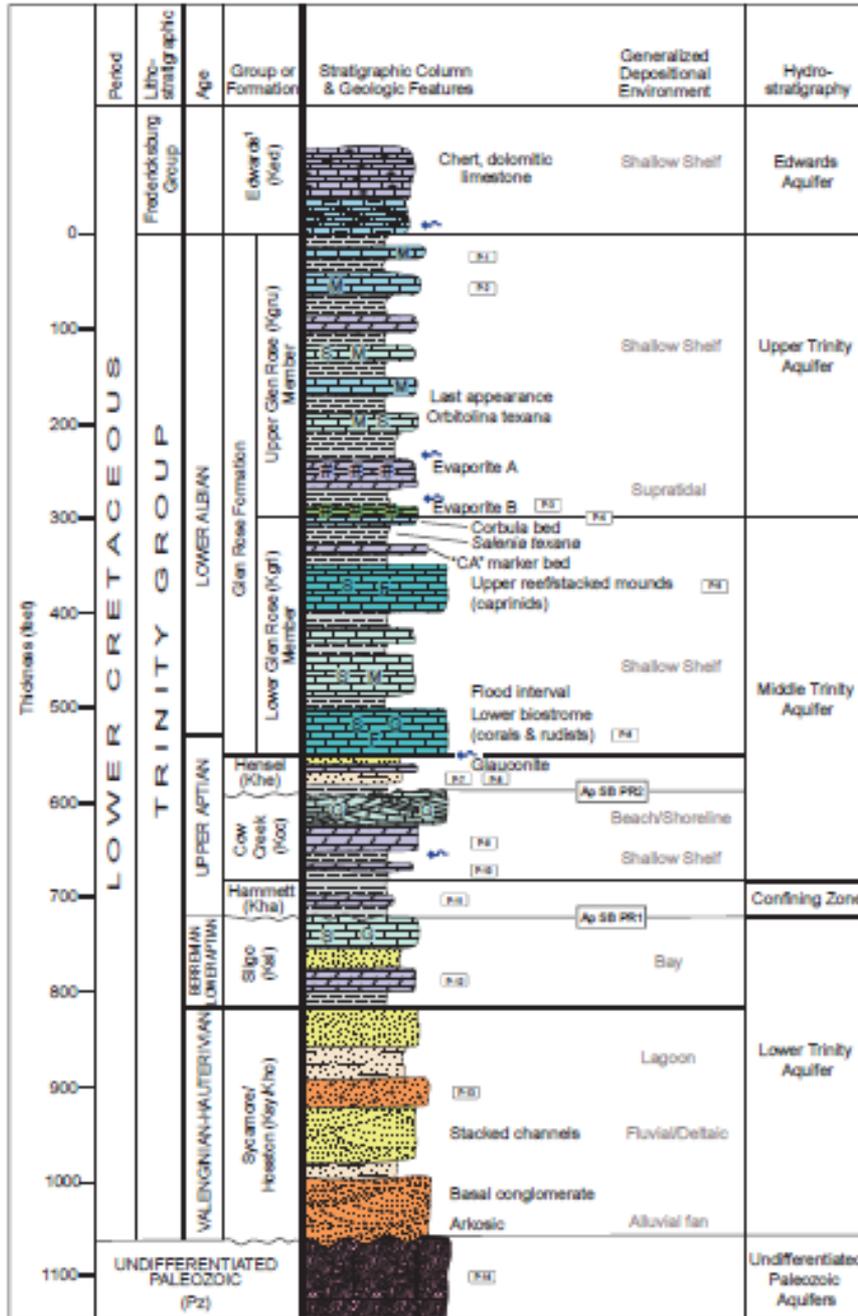
GMA9 Boundary Map



The Trinity Aquifer

- The Trinity Aquifer is made up of three hydrogeologic units: the Upper, the Middle, and the Lower Trinity. Within West Caves Estates no wells produce from the Upper, few if any produce from the Middle thus leaving the majority of wells producing groundwater from the Lower Trinity.
- Most of western Hays county residents produce groundwater from the Middle Trinity.

2-1 Stratigraphic Column



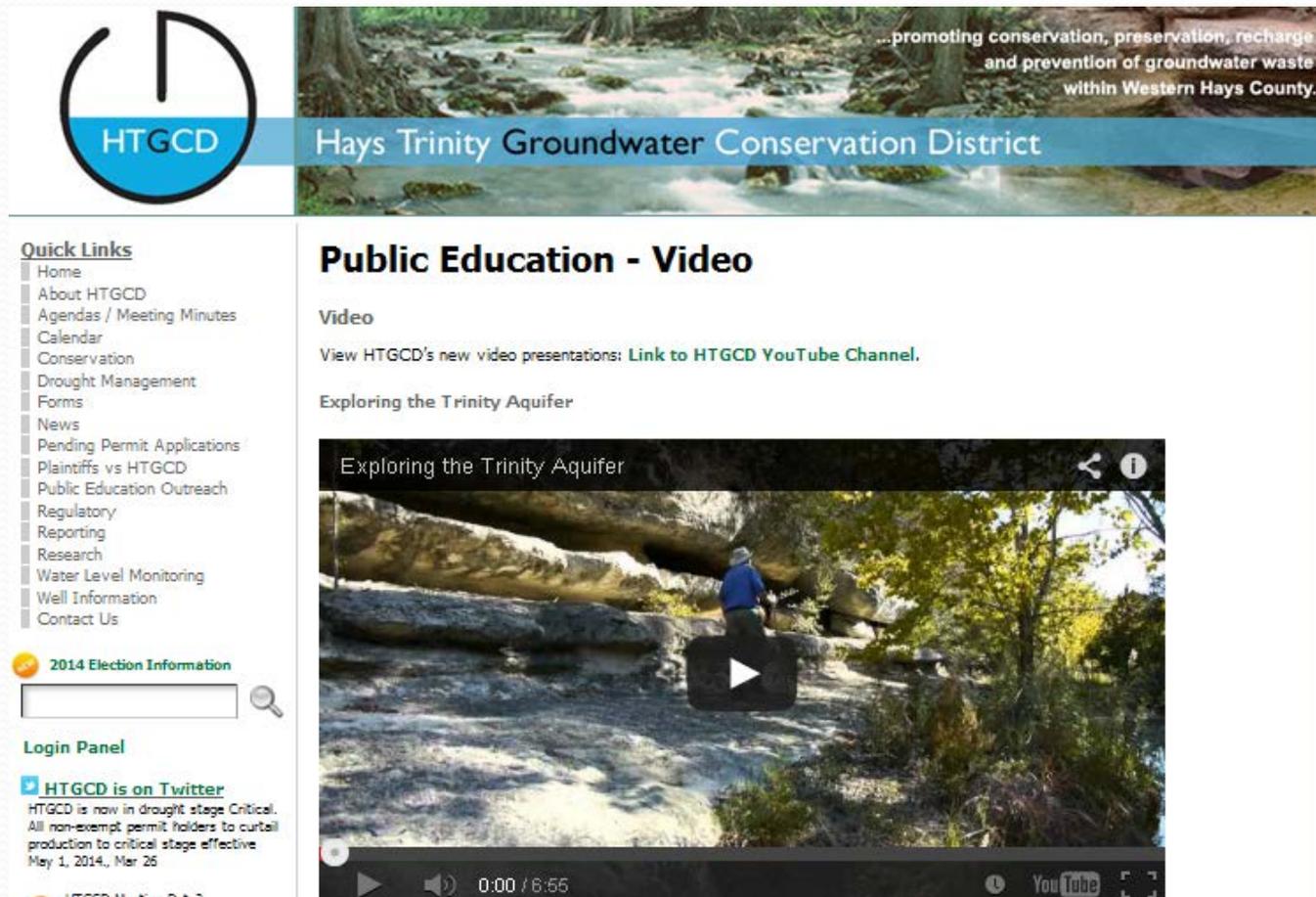
Is there groundwater left

- The question of “is there groundwater left in the Trinity Aquifer” is asked all the time. The very short answer is “yes!”.
- The HTGCD records all newly drilled wells within the District as part of its mandate. Each and every well drilled has encountered groundwater although depth to water has increased over time. Factors such as population growth and lack of recharge (rainfall) are major contributors to the lowering water table.

Groundwater Videos

- The District has recently created two educational videos both of which can be viewed directly from our website home page.
- The videos show an inside look at the Trinity Aquifer here in Hays County.

Educational Videos



The screenshot displays the HTGCD website interface. At the top left is the HTGCD logo, a stylized power button symbol with the text 'HTGCD' inside. To its right is a banner image of a river with the text: "...promoting conservation, preservation, recharge and prevention of groundwater waste within Western Hays County." Below the logo is a vertical list of "Quick Links" including Home, About HTGCD, Agendas / Meeting Minutes, Calendar, Conservation, Drought Management, Forms, News, Pending Permit Applications, Plaintiffs vs HTGCD, Public Education Outreach, Regulatory, Reporting, Research, Water Level Monitoring, Well Information, and Contact Us. Below the links is a "2014 Election Information" section with a search box. A "Login Panel" is also visible. The main content area is titled "Public Education - Video" and contains a video player for "Exploring the Trinity Aquifer". The video player shows a person in a blue shirt and hat standing on a rocky riverbank. The video player interface includes a play button, a progress bar at 0:00 / 6:55, and the YouTube logo.

HTGCD

Hays Trinity Groundwater Conservation District

...promoting conservation, preservation, recharge and prevention of groundwater waste within Western Hays County.

Public Education - Video

Video

View HTGCD's new video presentations: [Link to HTGCD YouTube Channel.](#)

Exploring the Trinity Aquifer

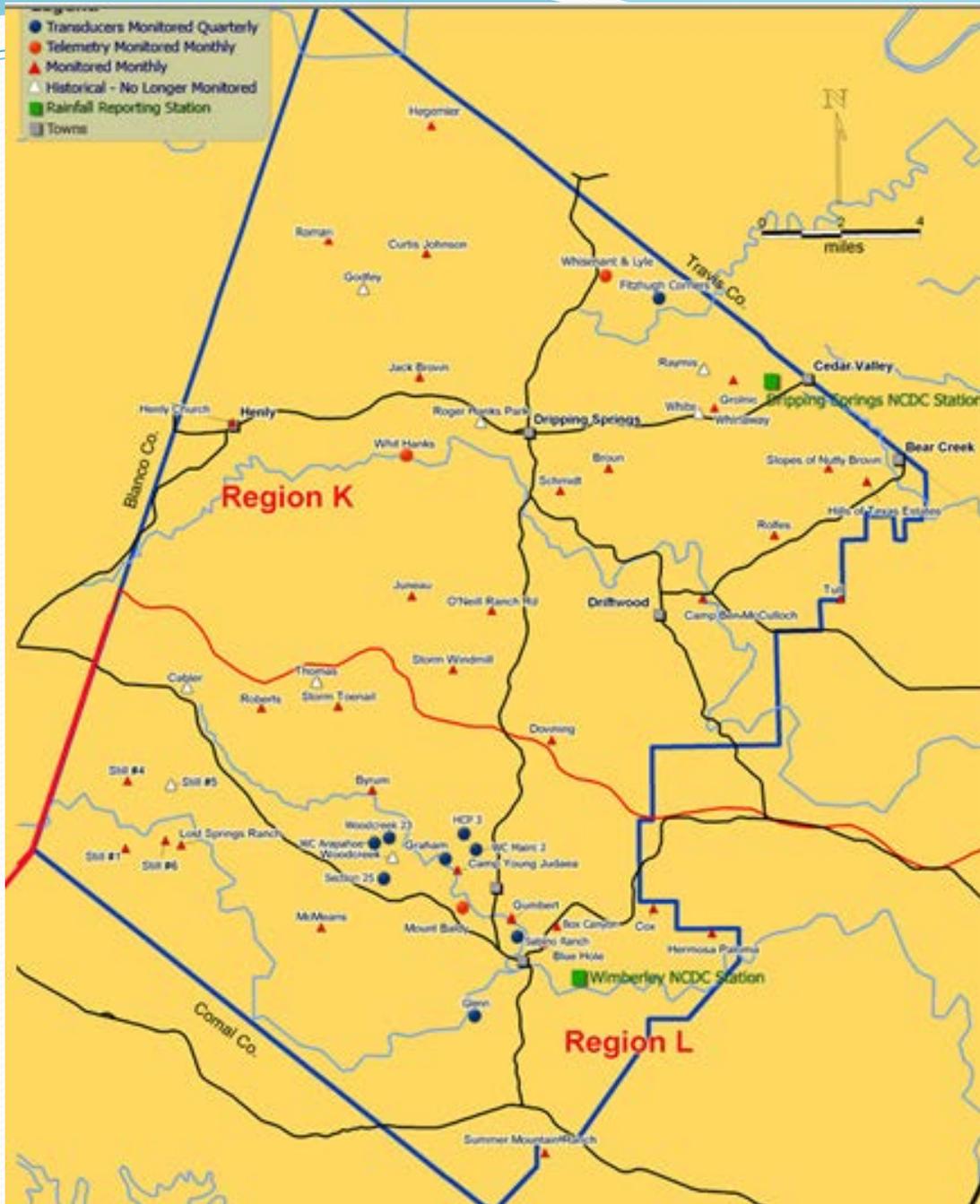
Exploring the Trinity Aquifer

0:00 / 6:55

YouTube

Monitoring Well Levels

- Review the District's website under "Water Level Monitoring" to see our map of approximately 40 wells throughout western Hays County that the District collects water-level data monthly. Simply click on a well-site to reveal a hydrograph and rainfall data collected. By "hovering your mouse" over the blue or yellow data lines, additional information collected is displayed.
- You may wish to view our map to see if you live close to one of our monitored wells as a possible indicator of the groundwater level in your well. The District is interested in including West Cave Estates in the HTGCD monitoring program. If you would like to be part of our program, please contact the District office to discuss next steps.

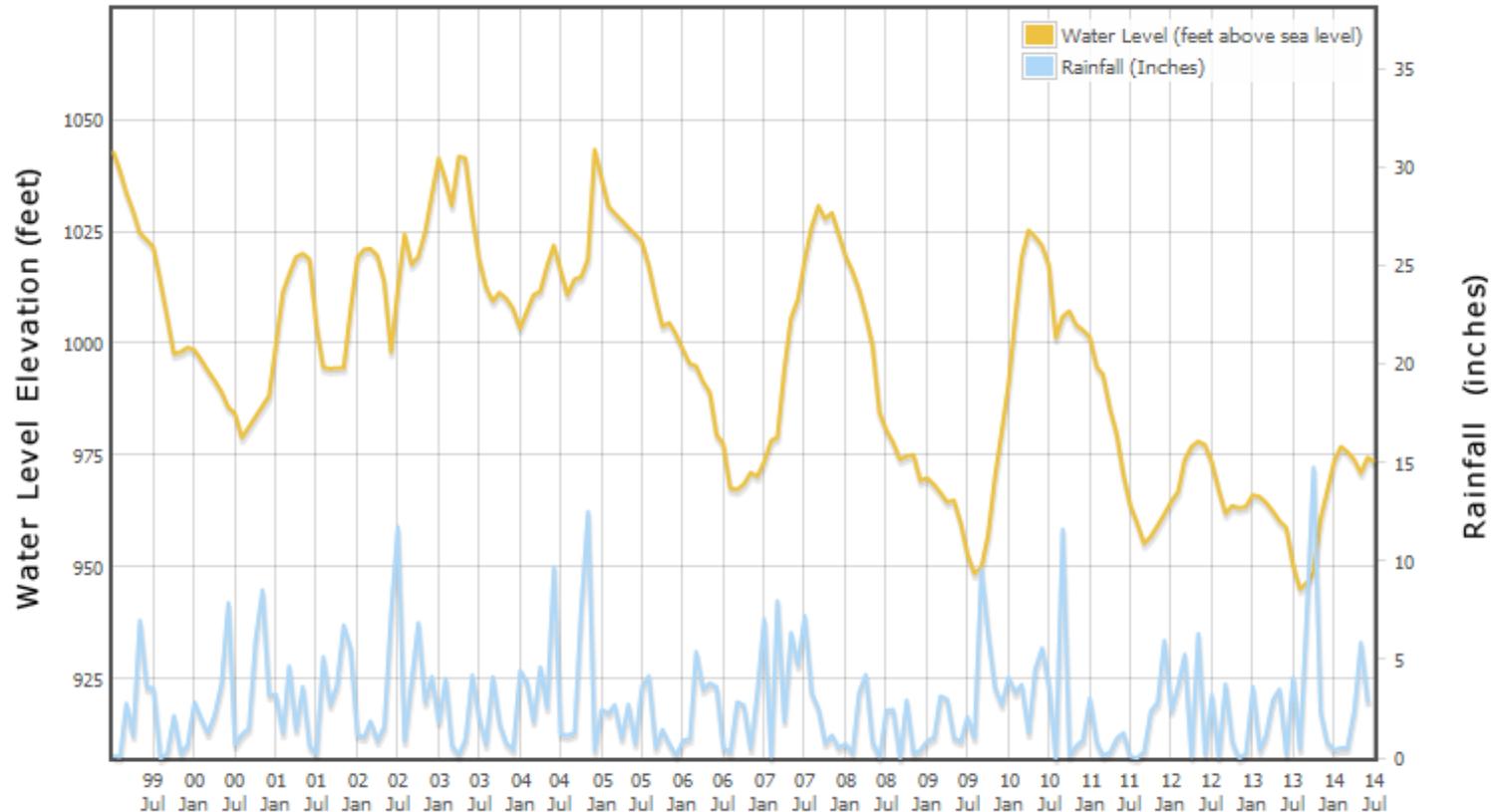


Hydrograph: historic well data

Henly Church

30° 11' 46" NORTH
98° 12' 45" WEST

Total Well Depth: 460
Elevation: 1325.8920



Funding

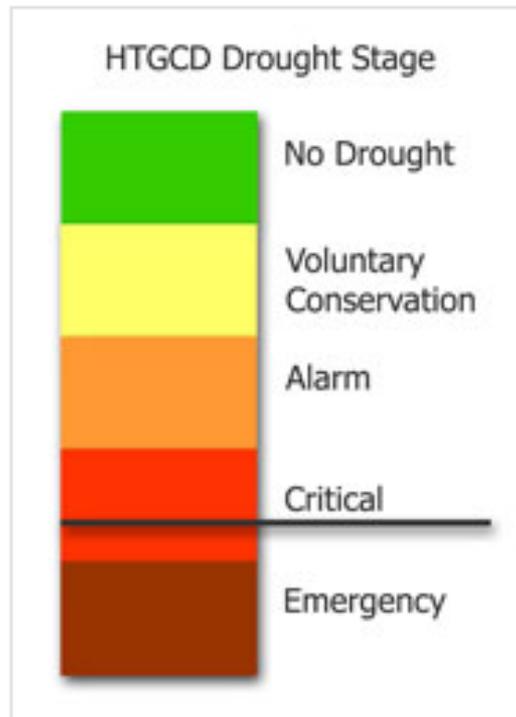
- Primary funding comes from new well fees and new public water connection fees. In addition, the District has been funded from a yearly grant provided by Hays County Commissioner's Court.
- The HTGCD neither imposes an ad valorem tax nor requires non-exempt permit production fees. Funding in the years to come will be a concern and a future discussion point for the District.

Current Drought Stage

- Currently within western Hays County we are experiencing drought stage CRITICAL which includes a mandatory 30% reduction in groundwater production. The HTGCD can only regulate production curtailments from non-exempt permit holders. Exempt wells, domestic and agricultural use, are not included in the production curtailment mandate. All exempt well owners however, are encouraged to reduce their water consumption during times of drought. The drop you save today may be the drop you have to drink tomorrow.
- If there are no significant rainfall events in the community, drought conditions will worsen and drought stage EMERGENCY will be enacted. This will be a 40% production curtailment for non-exempt wells.

Drought Stage CRITICAL

Drought Management



March 2014

 Drought Stage History

Thank you!

- If you have any questions concerning the District and would like to speak further, please contact me by email at Manager2@haysgroundwater.com or call the District office at 512-858-9253.