

Coastal Plains Groundwater Conservation District

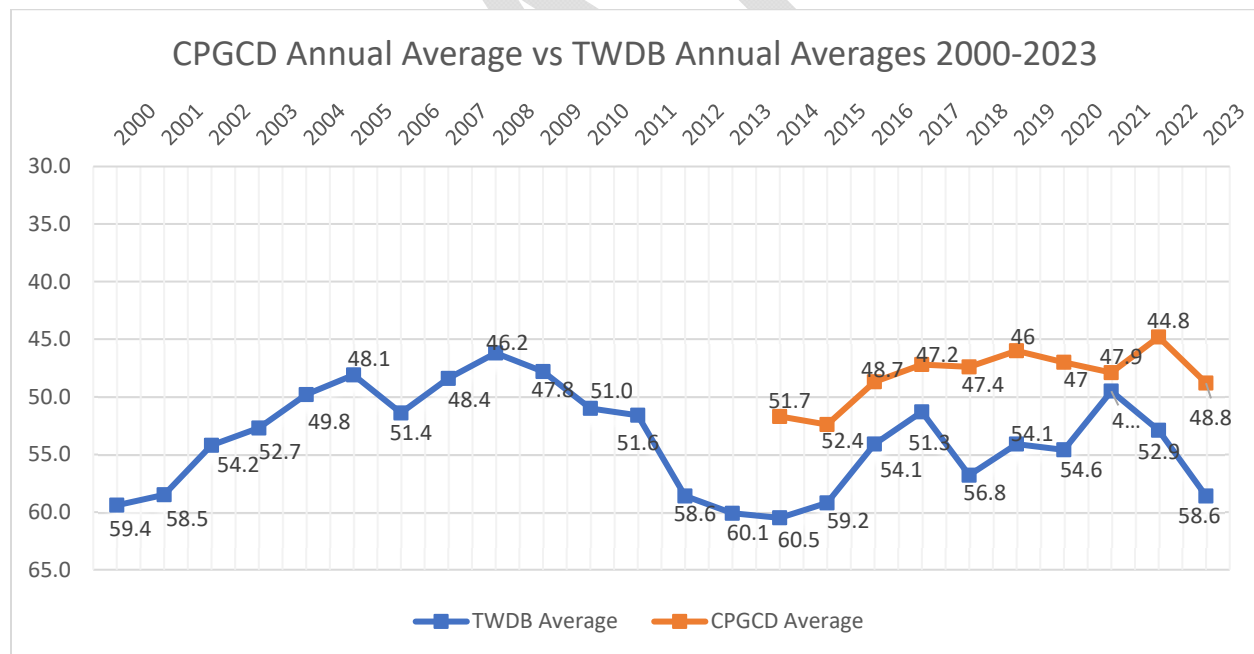
Desire Future Condition (DFC) Achievement Policy

As required by Texas Water Code, Section 36.108(d), not later than May 1, 2021, and every five years thereafter, the districts shall consider groundwater availability models and other data or information for the management area and shall propose for adoption Desired Future Conditions (“DFCs”) for the relevant aquifers within the management area.

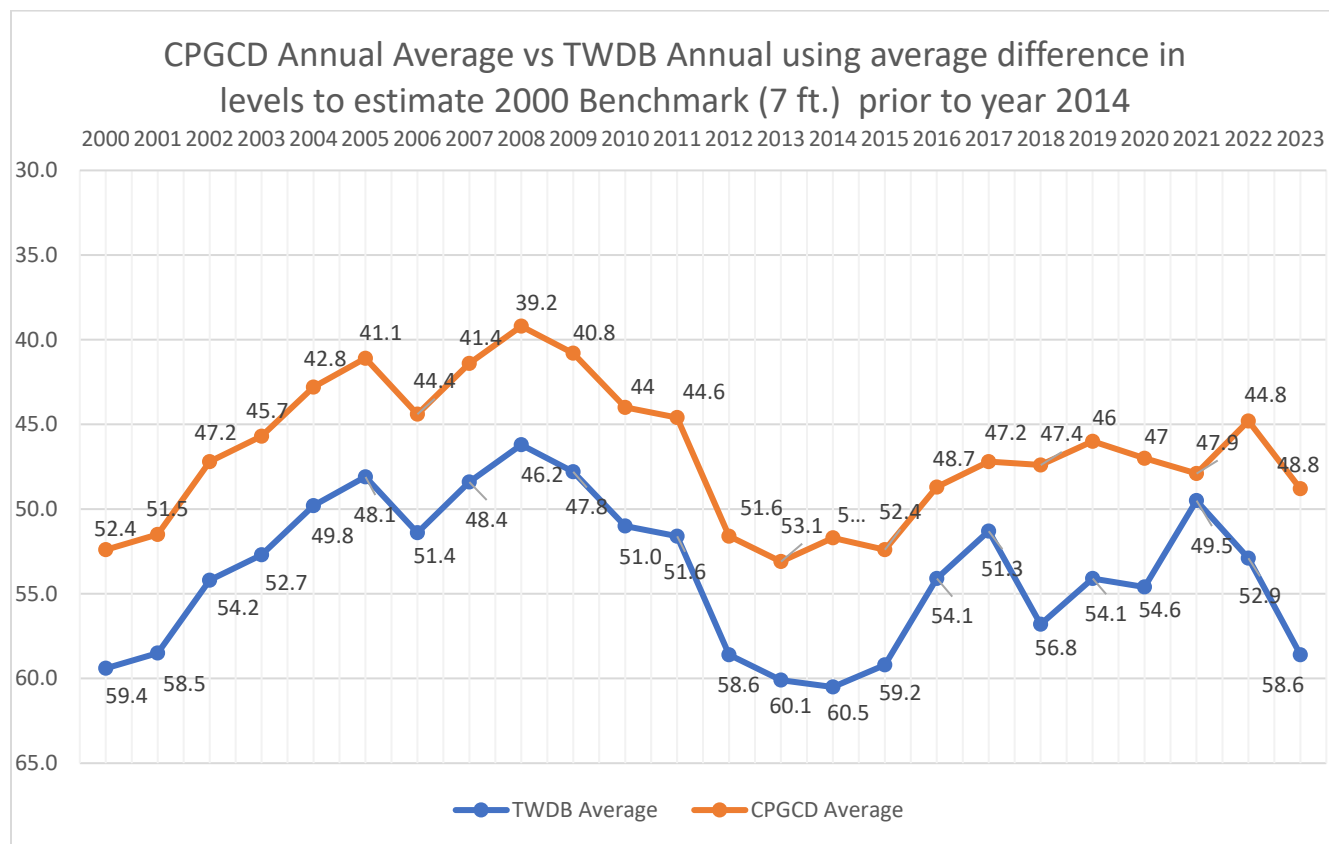
"Desired Future Condition" or "DFC" " means a quantitative description, adopted in accordance with Section 36.108, of the desired condition of the groundwater resources in a management area at one or more specified future times.

In the most recent round of joint planning for Groundwater Management Area 15, member districts adopted a GMA-wide DFC to limit the average drawdown to 13 feet for the Gulf Coast Aquifer system between the years 2000 and 2080. Specifically for Matagorda County (CPGCD), a DFC of 11 feet average drawdown for the Chicot/Evangeline aquifers was adopted.

CPGCD developed and began monitoring a network of wells designated to monitor for DFC achievement in 2014. This network consists of 16 wells geographically spaced throughout the county with varying depths. Since this network of wells was not established until 2014, CPGCD decided to use TWDB monitor wells to establish the baseline water levels in the year 2000 and utilize those same baseline levels for CPGCD’s 16 DFC monitor wells. This graph shows the trend of TWDB wells (7) and CPGCD wells (16) from 2000-2023.



CPGCD uses the difference between the CPGCD and TWDB measurements for 2014 to extrapolate data for the prior years. CPGCD chooses to use the average difference of TWDB/CPGCD networks from 2014-2023 of 7 feet to estimate prior years’ average water level for CPGCD well network. The following graph shows the difference (7ft.) in average water levels plotted back to 2000.



By using this method, CPGCD established an average water level for 2000 starting conditions of 52.4 feet below land surface. If the average water levels in the CPGCD monitor wells taken in March of calendar year drop below 63.4 feet below land surface at (exceeding the DFC of an average of 11 feet of decline since 2000), CPGCD would consider action to reduce permit allocations based on CPGCD Rule Section 6.11.