Drought Outlook and Barney Davis Site Evaluation Update

for Corpus Christi City Council

Michael Murphy, COO March 28, 2023



Water Restrictions and Lake Levels

DROUGHT CONTINGENCY PLAN

Combined storage levels of Lake Corpus Christi and Choke Canyon Reservoir

40.30%

As of 03-24-2023

50% Water Restrictions lifted above 50%

40% Stage 1- Mild Water Shortage Watch

30% Stage 2- Moderate Water Shortage Watch

20% Stage 3- Critical Water Shortage

Historical combined storage levels of Lake Corpus Christi and Choke Canyon Reservoir

41.80%
ONE MONTH AGO

49.50% ONE YEAR AGO CORPUS CHRISTI WATER

WATER DATA DASHBOARD

WATER RESTRICTIONS FAQS

HOW CAN I SAVE WATER?



The City of Corpus Christi is under Stage 1 Water Restrictions.

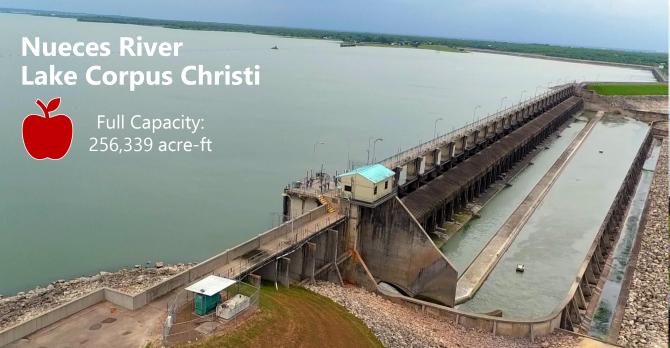
Water Sources

- CCW produced an average of 80 million gallons per day (MGD) last fiscal year.
- Surface water resources:
 - Lake Texana (Mary Rhodes Pipeline).
 - Colorado River (Mary Rhodes Pipeline Phase II).
 - Nueces River.
 - Choke Canyon Reservoir (CCR).
 - Lake Corpus Christi (LCC).







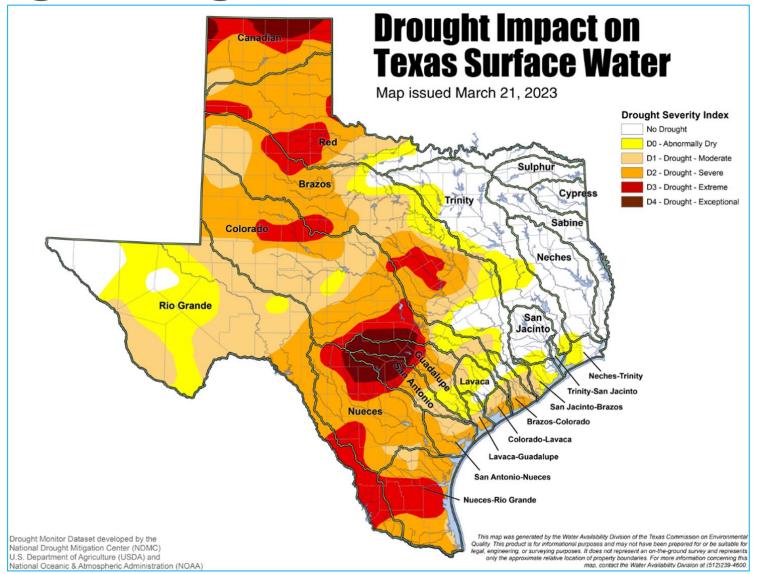




Drought Impact on Texas Surface Water Recharge Zones D0 - Abnormally Dry D3 - Drought - Extreme Lower Colorado River Basin 2,903 Sq-Mi Lavaca - Navidad Watershed Frio River Watershed 5:529 Sq Mi Bay City Choke Canyon San Antonio-Nueces Nueces River Basin 11,235 Sq Mi River Basin Lake Corpus Christi '256,339 Ac. Ft. Gregory Corpus Christi **Coastal Bend Region Raw Water Supply** Kingsville E 5 10 20 30

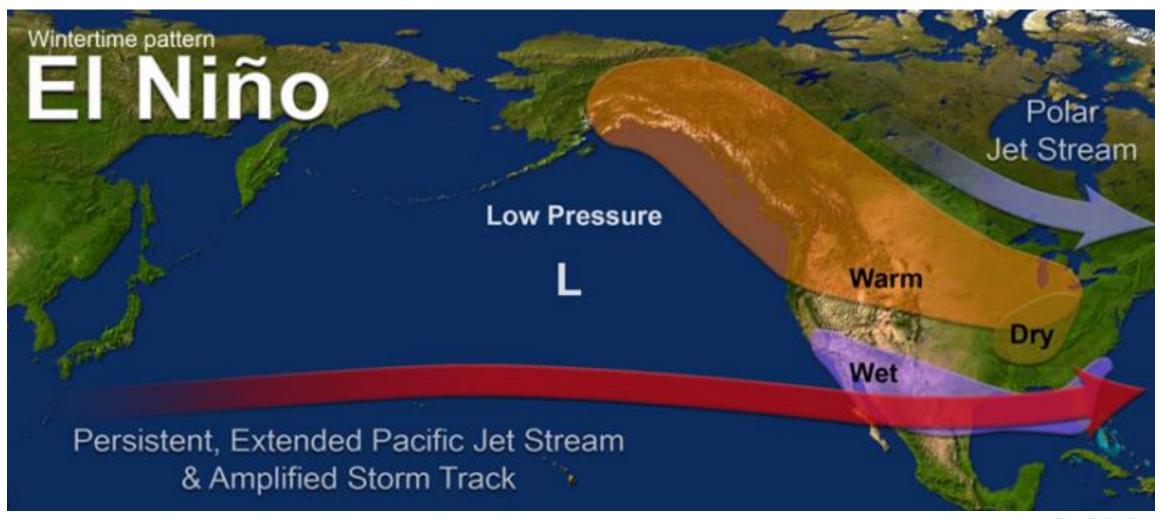


Ongoing Drought in Texas





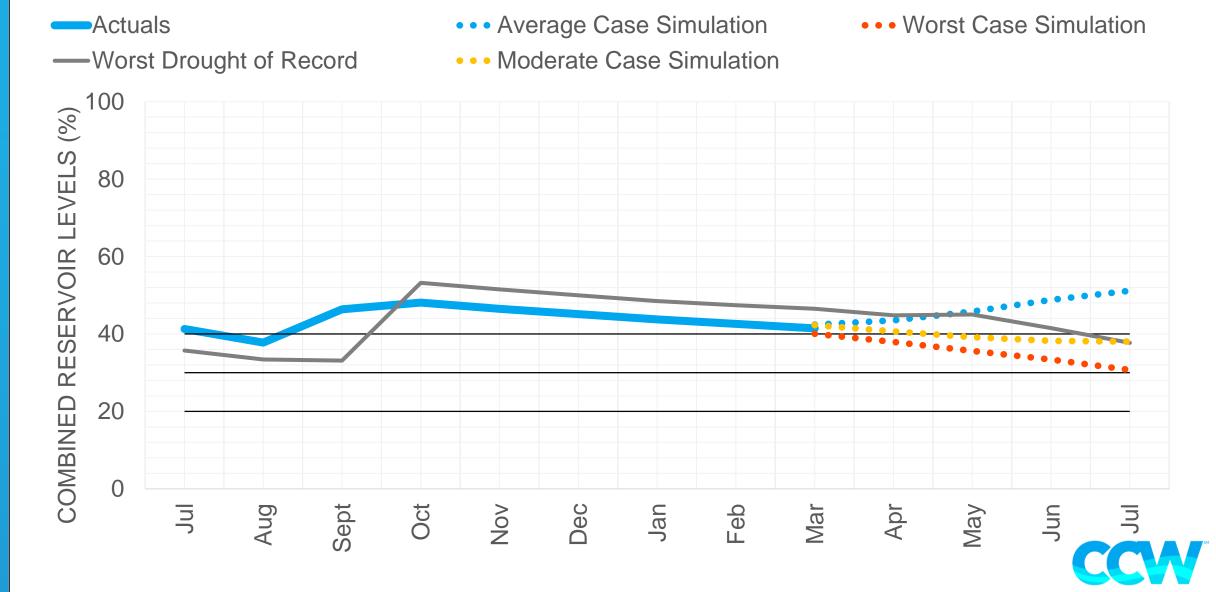
National Weather Service Update



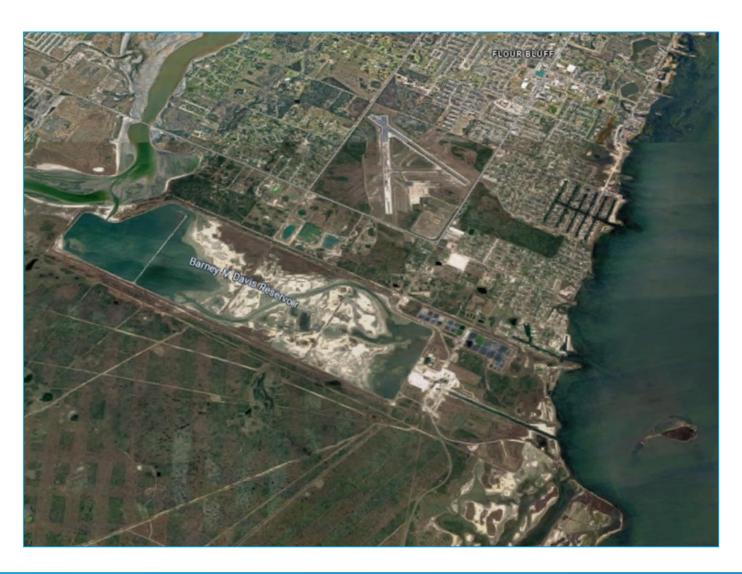


Reservoir Outlook

*Using 2022 Consumption Data



Barney Davis Site Evaluation Update



- HDR site assessment is underway.
- Target Capacity:
 20 MGD.

 Project is located near the Barney Davis power facility.



Barney Davis Site Assessment Scope

- Data evaluation.
- Developing treated water quality goals.
- Environmental permitting analysis at Oso Creek and Oso Bay.
- Desalination facility conceptual design including flow diagrams and flow rates.
- Budgeting.
- Project management.
- Technical memorandum.



Thank you!

