



BRAZOS VALLEY GROUNDWATER CONSERVATION DISTRICT

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The purpose of this document is to fulfill requirements as set forth in Section 36.108, Texas Water Code (TWC), which requires proposed Desired Future Conditions (DFCs) to be adopted not later than May 1, 2021, and then published for public hearings by each Groundwater Conservation District (GCD) in Groundwater Management Area 12 (GMA 12). Please refer to Section 36.108, TWC, for specific requirements of this section.

Tables 1, 2, and 3 list the DFCs proposed by GMA 12 during a GMA 12 meeting held on March 18, 2021, which had been properly noticed and posted as a public meeting. Brazos Valley Groundwater Conservation District is a member of GMA 12.

Table 1 - BVGCD DFCs proposed for the Sparta, Queen City, Carrizo, Calvert Bluff, Simsboro, and Hooper aquifers.¹ Districts may adopt proposed DFCs within a range of 10% above or below the values generated by GAM Run 12. The totals in Table 1 are 5% above that generated amount.

GCD	Average Drawdown (ft) for Entire Aquifer						Time Period for Average Drawdown
	Sparta	Queen City	Carrizo	Calvert Bluff	Simsboro	Hooper	
Brazos Valley	53	45	88	122	274	187	1/1/2000 to 12/31/2069

¹ the proposed DFCs are based on Run 12 for the updated Groundwater Availability Model for the Central Portion of the Sparta, Queen City, and Carrizo-Wilcox Aquifers (INTERA and others, 2020).

Table 2 - BVGCD DFC proposed for the Yegua-Jackson Aquifer.² Districts may adopt proposed DFCs within a range of 10% above or below the value generated by GAM Run 2. The total in Table 2 is 5% above that generated amount.

GCD	Average Drawdown (ft) for the Entire Aquifer	Time Period for Average Drawdown
Brazos Valley	64	1/1/2010 to 12/31/2069

² the proposed DFC is based on Run 2 of the Groundwater Availability Model for the Yegua-Jackson Aquifer (INTERA and others, 2020).

Table 3. BVGCD DFCs proposed for the Brazos River Alluvium Aquifer.³

County	Desired Future Condition Statement
Brazos and Robertson Counties	Percent saturation above well depth shall average at least 30 percent for wells located north of State Highway 21 and 40 percent for wells located south of State Highway 21. If the percent saturation criteria are reached for three consecutive years then the DFC would be reached.

³the proposed DFCs remain the same as the current DFCs. The DFCs were checked with Run 2 for the Brazos River Alluvium GAM (Ewing and Jigmond, 2016)

References:

- Deeds, N.E., T. Yan, A. Singh, T.L. Jones, V.A. Kelley, P.R. Knox, and S.C. Young. 2010. Groundwater availability model for the Yegua-Jackson Aquifer: Final report prepared for the Texas Water Development Board by INTERA, Inc., 582 p.
- Ewing, J.E., and M. Jigmond. 2016. Final Numerical Model Report for the Brazos River Alluvium Aquifer Groundwater Availability Model, prepared for the Texas Water Development Board, August 2016.
- INTERA, D.B. Stephens, and Groundwater Consultants, LLC. (2020). GMA 12 Update to the Groundwater Availability Model for the Central Portion of the Sparta, Queen City, and Carrizo-Wilcox Aquifers. prepared for the Groundwater Management Area 12 Members, November 2020.



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