

GAM run 03-33

by Shirley Wade

Texas Water Development Board
Groundwater Availability Modeling Section
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REQUESTOR:

Neches and Trinity Valleys Groundwater Conservation District

DESCRIPTION OF REQUEST:

The District requested the following information:

- Aquifer recharge values for Neches and Trinity Valleys Groundwater Conservation District.

METHODS:

To address the request, we:

- Ran the predictive (2000-2050) model for the Northern Carrizo-Wilcox aquifer Groundwater Availability Model ((Fryar and others, 2003) and queried the budget files for the Carrizo and Wilcox aquifer layers in Henderson, Anderson, and Cherokee counties.
- Extracted recharge values for average climate conditions.

PARAMETERS AND ASSUMPTIONS:

None: Data request.

RESULTS:

The recharge values in Henderson, Anderson, and Cherokee counties are presented in table 1.

REFERENCES:

Fryar, D., Senger, R., Deeds, N., Pickens, J., Jones, T., Whallon, A. J., and Dean, K.E., 2003, Groundwater Availability Model for the Northern Carrizo-Wilcox Aquifer: Final Report prepared for the Texas Water Development Board.

Table 1. Recharge in the Northern Carrizo-Wilcox aquifer GAM in acre-feet per year for average climate conditions.

Aquifer Layer	Anderson	Henderson	Cherokee
Average Conditions			
Carrizo	1,802	1,851	1,856
Upper Wilcox	6,435	14,066	0
Middle Wilcox	508	7,356	0
Lower Wilcox	0	4,459	0
All	8,744	27,732	1,856

Notes:

1. The numbers are rounded to the nearest 1 acre-ft.