



## MEMORANDUM

---

**TO:** Region C Water Planning Group

**FROM:** Stephanie Griffin [NTD02182] T:\Task 3\M\_Carrizo-Wilcox GAM-operation policy.doc

**SUBJECT:** Recommended Operation Policy for the Northern Carrizo-Wilcox Groundwater Availability Model (GAM)

**DATE:** June 13, 2003

---

The Texas Water Development Board (TWDB) has released the final report regarding the Northern Carrizo-Wilcox groundwater availability model (GAM). The model is the tool the Regional Water Planning Groups (RWPG) must use to determine available groundwater supplies in their regions, when completed models are available. The Northern Carrizo-Wilcox aquifer underlies portions of Freestone, Henderson, and Navarro counties in Region C.

Each RWPG must develop an operating policy that they would like to have modeled. They must submit their request in writing to the TWDB. The TWDB will run the GAM according to each region's specifications and in the order in which they receive requests. The TWDB does not guarantee a quick response to the GAM requests. Thus, the sooner Region C makes their request, the sooner we will receive results.

After reviewing the Northern Carrizo-Wilcox GAM, I do not see any reason to make any adjustments to the TWDB's assumptions regarding hydraulic conductivity, recharge, or transmissivity. According to preliminary results, the Carrizo-Wilcox aquifer has an abundance of water. I have tried to contact several water suppliers in these counties to determine if anyone has had problems with declining water levels. As of now, I have not heard back from these entities.

Hydraulic conductivity (permeability) is the rate at which water can move through the pores or openings (voids) in an aquifer.

Recharge is a measure of the ability of water to replenish an aquifer.

Transmissivity is the ability of an aquifer to move water.

I recommend that the RCWPG consider adopting the following operation policy for the Northern Carrizo-Wilcox GAM in Region C to the TWDB:

- Assume reliable supply is based on using 100% of recharge.
- Request that the TWDB provide the water availability results for the years 2000 and 2060 broken down by county and basin.