

To: Members, Brazos G Regional Water Planning Group	
From: David D. Dunn, P.E. Grady Reed Cory Shockley	Project: 2006 Brazos G Regional Water Plan
CC: Teresa Clark, Brazos River Authority	
Date: April 7, 2004	Job No: 44112036

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RE: DRAFT: Water Demand and Supply Comparison Tables for the 2006 Brazos G Regional Water Plan

This package contains a draft set of tables comparing projected water supplies and projected water demands for Water User Groups in the Brazos G Regional Water Planning Area. Enclosed are the following:

1. DRAFT Demand/Supply Comparisons for the 2006 Brazos G Regional Water Plan
2. Demand/Supply Comparisons from the 2001 Brazos G Regional Water Plan (for comparison to 2006)
3. Comparison of 2001 and DRAFT 2006 Supplies for Municipal Water User Groups (WUGs)
4. DRAFT 2006 Surface Water Allocations for Municipal WUGs

Groundwater supplies were estimated for municipal entities based upon a database of well capacities maintained by the Texas Commission on Environmental Quality (TCEQ). Groundwater supplies were estimated for the county-aggregated uses of irrigation, steam electric, manufacturing, and mining based upon projected demands and other factors. All supplies were then aggregated into county totals. If a county total supply exceeded the estimated groundwater availability adopted by the RWPG for the aquifer(s) in that county, all uses were proportionally reduced so that the groundwater supply did not exceed the groundwater availability adopted by the RWPG in that county.

Surface water supplies were determined through application of the TCEQ Brazos Water Availability Model (Brazos WAM), as modified to account for subordination agreements, adjustment of reservoir capacities to account for projected sediment accumulation in years 2000 and 2060, and location of Brazos River Authority contracts near their actual diversion locations. For each WUG holding a water right associated with a reservoir greater than 1,000 acre-feet capacity, the supply is based on the firm yield of the reservoir. For all others with surface water rights, surface water supply was determined to be the minimum annual diversion during the 58-year simulation period. Contractual water supply agreements between WUGs and Wholesale Water Providers have been incorporated to the extent we have the information available. We are aware of several instances where facility constraints prevent full utilization of a water right or contracted water supply (e.g., pipeline not built, etc.), and have reduced available supplies accordingly. Supply for the county-aggregated use of livestock was assumed to be available from local surface water such as riparian use not accounted for by the Brazos WAM and stock tanks capturing diffuse surface runoff.

Please review these data and let us know of any concerns or questions you might have. We will be presenting these data at the April 14, 2004 meeting of the Brazos G Regional Water Planning Group, and will request authorization to proceed with these numbers substantially as they exist, with the understanding that some of these data may be updated as we receive additional information this summer from WUGs, Wholesale Water Providers and others in the region.

Please feel free to call me at (512) 912-5136 or Grady Reed at (512) 912-5174.