

**5B.15 Hill County Water Supply Plan**

Table 5B.15-1 lists each water user group in Hill County and their corresponding surplus or shortage in years 2030 and 2050. For each water user group with a projected shortage, a water supply plan has been developed and is presented in the following subsections. Water supply plans are also presented for some entities that need pumping/conveyance facilities to utilize their existing water resources, or to become a regional provider.

**Table 5B.15-1.  
Hill County Surplus/(Shortage)**

<b>Water User Group</b>	<b>Surplus/(Shortage)<sup>1</sup></b>		<b>Comment</b>
	<b>2030 (acft/yr)</b>	<b>2050 (acft/yr)</b>	
City of Hillsboro	638	497	Projected surplus
City of Hubbard	0	0	No projected needs
City of Itasca	98	87	Projected surplus
City of Whitney	447	442	Projected surplus
County-Other	818	316	Projected surplus
Manufacturing	(56)	(84)	Projected shortage – see plan below
Steam-Electric	0	0	No projected needs
Mining	33	5	Projected surplus
Irrigation	1,290	1,293	Projected surplus
Livestock	0	0	No projected needs

<sup>1</sup> From Tables 4-29 and 4-30, Section 4 – Comparison of Water Demands with Water Supplies to Determine Needs.

**5B.15.1 City of Hillsboro**

The City of Hillsboro obtains its water supply from the Aquilla Water Supply District (Aquilla WSD). Aquilla WSD has contracted with the Brazos River Authority for surface water from Lake Aquilla and diverts, treats, and delivers water to the City of Hillsboro. The existing facilities are adequate to supply the needs of the City of Hillsboro through the year 2050. No change in water supply is recommended.

### **5B.15.2 City of Hubbard**

The City of Hubbard obtains its water supply from surface water from Lake Navarro Mills through the Post Oak Special Utility District (SUD). The Post Oak SUD purchases treated water from the City of Corsicana and delivers it to the City of Hubbard. The existing contractual arrangements and conveyance capacity of the system are adequate to meet the needs of the City of Hubbard through the year 2050. No change in water supply is recommended.

### **5B.15.3 City of Itasca**

The City of Itasca obtains its water supply from groundwater from the Trinity and Woodbine Aquifers. The existing production capacity of the wells and groundwater availability are adequate to supply the needs of the City of Itasca through the year 2050. No change in water supply is recommended.

### **5B.15.4 City of Whitney**

The City of Whitney obtains its water supply from groundwater from the Trinity Aquifer. The City of Whitney has also contracted with the Brazos River Authority for 750 acft of surface water supply from Lake Whitney, however, the City has not implemented the required infrastructure to utilize this supply. The production capacity of the City's existing wells and groundwater availability are adequate to supply the needs of the City of Whitney through the year 2050. No change in water supply is recommended.

### **5B.15.5 County-Other**

County-Other is projected to have a surplus of water through the year 2050 and no changes in water supply are recommended.

### **5B.15.6 Manufacturing**

Water supply for Manufacturing in Hill County is obtained by purchase from a city or water supply corporation or from private wells operated by the manufacturing entity. Each of the cities and the rural area outside of the cities in Hill County have surplus supplies through the year 2050. New manufacturing facilities would be expected to locate where existing water supplies are available, such as near a City or within the service area of an existing water supply

corporation. Any of the cities or County-Other in Hill County would have the available water supply to meet all of the projected Manufacturing shortage.

Working within the planning criteria established by the Brazos G RWPG and TWDB, the following water supply plan is recommended to meet the projected 2050 shortage for Manufacturing Use in Hill County:

- Voluntary Redistribution from Municipal Use

#### **Costs**

Costs of the recommended plan for Manufacturing Use in Hill County to meet 2050 shortages are:

- a. Voluntary Redistribution from Municipal Use:
  - Cost Source: Estimate of wholesale cost of water
  - Date to be Implemented: By Year 2010
  - Annual Cost: \$54,600 per year

*The Annual Cost of \$54,600 is based upon multiplying the desired amount of water, 84 acft, by the estimated water rate of \$650 per acft.*

#### **5B.15.7 Steam-Electric**

No Steam-Electric demand exists nor is projected for the county.

#### **5B.15.8 Mining**

Mining is projected to have a surplus of water through the year 2050 and no changes in water supply are recommended.

#### **5B.15.9 Irrigation**

Irrigation is projected to have a surplus of water through the year 2050 and no changes in water supply are recommended.

#### **5B.15.10 Livestock**

Livestock water supply is projected to meet demands through the year 2050 and no changes in water supply are recommended.