



Franklin County and the Towns of Boones Mill and Rocky Mount

Water Source Overview

Major water sources are the Blackwater River, groundwater wells, and purchased water.

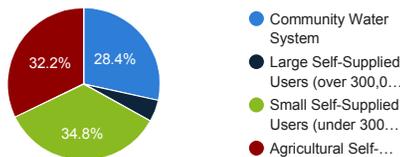
***Table 1:** Reported (2010) and projected (2040) water use by system type for Franklin County in MGD

Type	Reported Use 2010 MGD	Projected Use 2040 MGD
Community Water System	2.046	3.260
Large Self-Supplied Users (over 300,000 gal/month)	0.331	0.700
Small Self-Supplied Users (under 300,000 gal/month)	2.503	5.291
Agricultural Self-Supplied Users	2.313	2.313

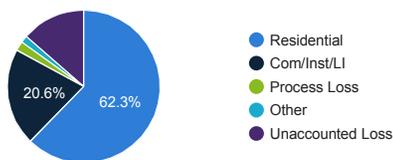
Water Use by System Type

Approximately 33,349 people use private groundwater wells for residential water supply. All tables and graphs represent reported water use including Sales to other localities, if applicable.

***Figure 1:** Percentage of reported water use by system type in 2010 (No use data shown on graph if less than .01 MGD: Refer to Table 1)



***Figure 2:** Disaggregated water use percentages for Community Water Systems in 2010 (No graph shown if no disaggregated use data reported)



***Table 2:** Reported (2010) and projected (2040) groundwater and surface water use for Franklin County in MGD

Reported 2010 Groundwater Use (MGD)	Reported 2010 Surface Water Use (MGD)	Projected 2040 Groundwater Use (MGD)	Projected 2040 Surface Water Use (MGD)
4.43	2.77	7.76	3.80

***Figure 3:** Franklin County highlighted in the Commonwealth of Virginia



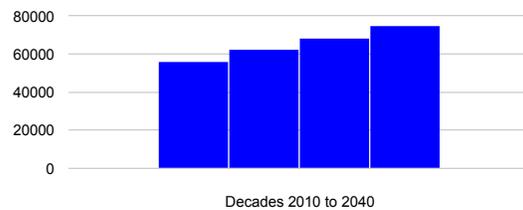
Projected Water Demand

Population and demand are projected to increase through the planning period. The County anticipates a deficit of 0.03 MGD by 2020; the Town of Boones Mill anticipates a deficit of 0.03 MGD by 2020. Alternatives presented for both the County and the Town include the development of new groundwater wells and purchased water from Western Virginia Water Authority.

***Table 3:** Franklin County population projections by decade from 2010 to 2040 (data gathered from VEC projections - 05/20/13)

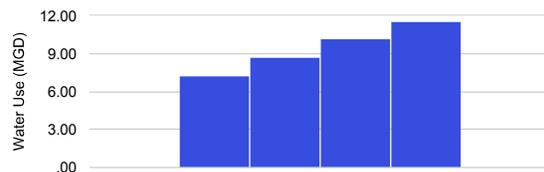
2010	2020	2030	2040	% Change (2010-2040)
56,159	62,412	68,461	74,695	32.1%

***Figure 4:** Franklin County population projections by decade for 2010, 2020, 2030 & 2040



***Table 4 & Figure 5:** Franklin County water demand trends by decade for 2010, 2020, 2030 & 2040 in MGD

Reported Use 2010 MGD	Projected Use 2020 MGD	Projected Use 2030 MGD	Projected Use 2040 MGD	Percent Change (2010-2040)
7.19	8.65	10.11	11.56	60.8%



Drought Management Practices

The County and Town adopted ordinances to enforce the Drought Response and Contingency Plan. (Roanoke Valley Alleghany Regional WSP)