



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



Botetourt County and the Towns of Buchanan, Fincastle, and Troutville

Water Source Overview

Major sources are groundwater wells.

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

Type	Reported Use 2010 MGD	Projected Use 2040 MGD
Community Water System	1.626	2.453
Large Self-Supplied Users (over 300,000 gal/month)	0.077	0.136
Small Self-Supplied Users (under 300,000 gal/month)	1.099	2.426
Agricultural Self-Supplied Users	0.559	0.559

Projected Water Demand

Population and demand are projected to increase through the planning period. The County anticipates a water supply deficit of 0.09 MGD by 2020. The County will likely development new groundwater sources to address water supply deficits.

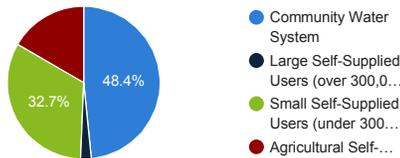
***Table 3:** Botetourt County population projections by decade from 2010 to 2040 (data gathered from VEC projections - 05/20/13)

2010	2020	2030	2040	% Change (2010-2040)
33,148	35,235	37,121	38,885	15.2%

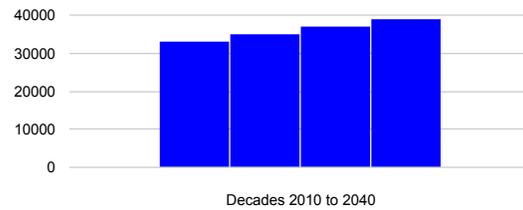
Water Use by System Type

Approximately 14,643 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)

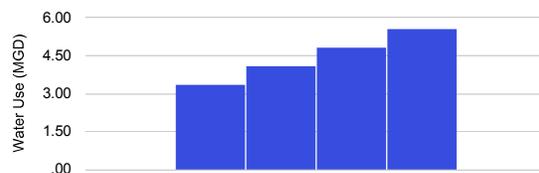


***Figure 4:** Botetourt County population projections by decade for 2010, 2020, 2030 & 2040

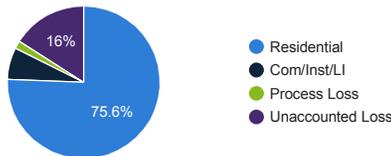


***Table 4 & Figure 5:** Botetourt County water demand trends by decade for 2010, 2020, 2030 & 2040 in MGD

Reported Use 2010 MGD	Projected Use 2020 MGD	Projected Use 2030 MGD	Projected Use 2040 MGD	Percent Change (2010-2040)
3.36	4.10	4.84	5.57	65.8%



***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 Botetourt 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)
2.99	0.38	5.13	0.44

Drought Management Practices

The County and Towns adopted ordinancea to implement and enforce the Drought Response and Contingency Plan. [Roanoke Valley Alleghany Regional Commission WSP]