



Greene County and the Town of Stanardsville

Water Source Overview

Major water sources are the Rapidan River and groundwater wells.

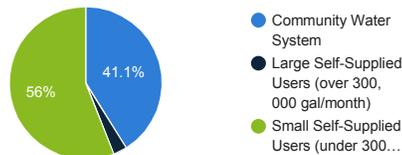
***Table 1:** Reported (2010) and projected (2040) water use by system type for Greene County in MGD

Type	Reported Use 2010 MGD	Projected Use 2040 MGD
Community Water System	0.735	3.285
Large Self-Supplied Users (over 300,000 gal/month)	0.052	0.078
Small Self-Supplied Users (under 300,000 gal/month)	1.002	1.239

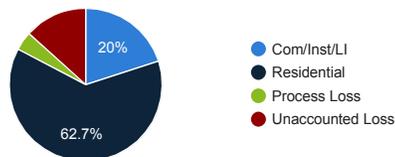
Water Use by System Type

Approximately 9,851 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 Greene 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)
1.16	0.63	1.55	3.05

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



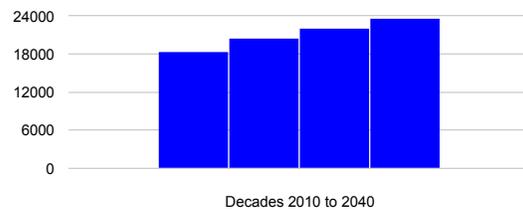
Projected Water Demand

Population and demand are projected to increase through the planning period. Deficits are anticipated for the Greene County municipal CWS (average day deficit of 0.54 MGD by 2030). Short-term alternatives for additional supply include implementation of water conservation measures and development of new groundwater sources. Reservoir development is anticipated to meet long-term supply needs.

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

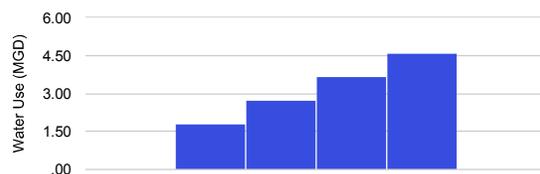
2010	2020	2030	2040	% Change (2010-2040)
18,403	20,397	22,082	23,638	27.8%

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



***Table 4 & Figure 5:** Greene 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)
1.79	2.73	3.66	4.60	157.2%



Drought Management Practices

Greene County adopted a Drought Management Ordinance which addresses implementation and enforcement of the Drought Response and Contingency Plan for both the County and the Town of Stanardsville. (Greene County and the Town of Stanardsville Regional WSP)